

1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 WATT +/- 5%.
2. ALL CAPACITANCE VALUES ARE IN MICROFARADS.
3. ALL CRYSTALS & OSCILLATOR VALUES ARE IN HERTZ.

| REV | ECN | DESCRIPTION OF REVISION | CHK APPD | DATE |
|-------|-------|-------------------------|----------|-----------|
| <REV> | <ECN> | <ECO_DESCRIPTION> | | <ECODATE> |

SCHEM,MLB,D1

8/8/12


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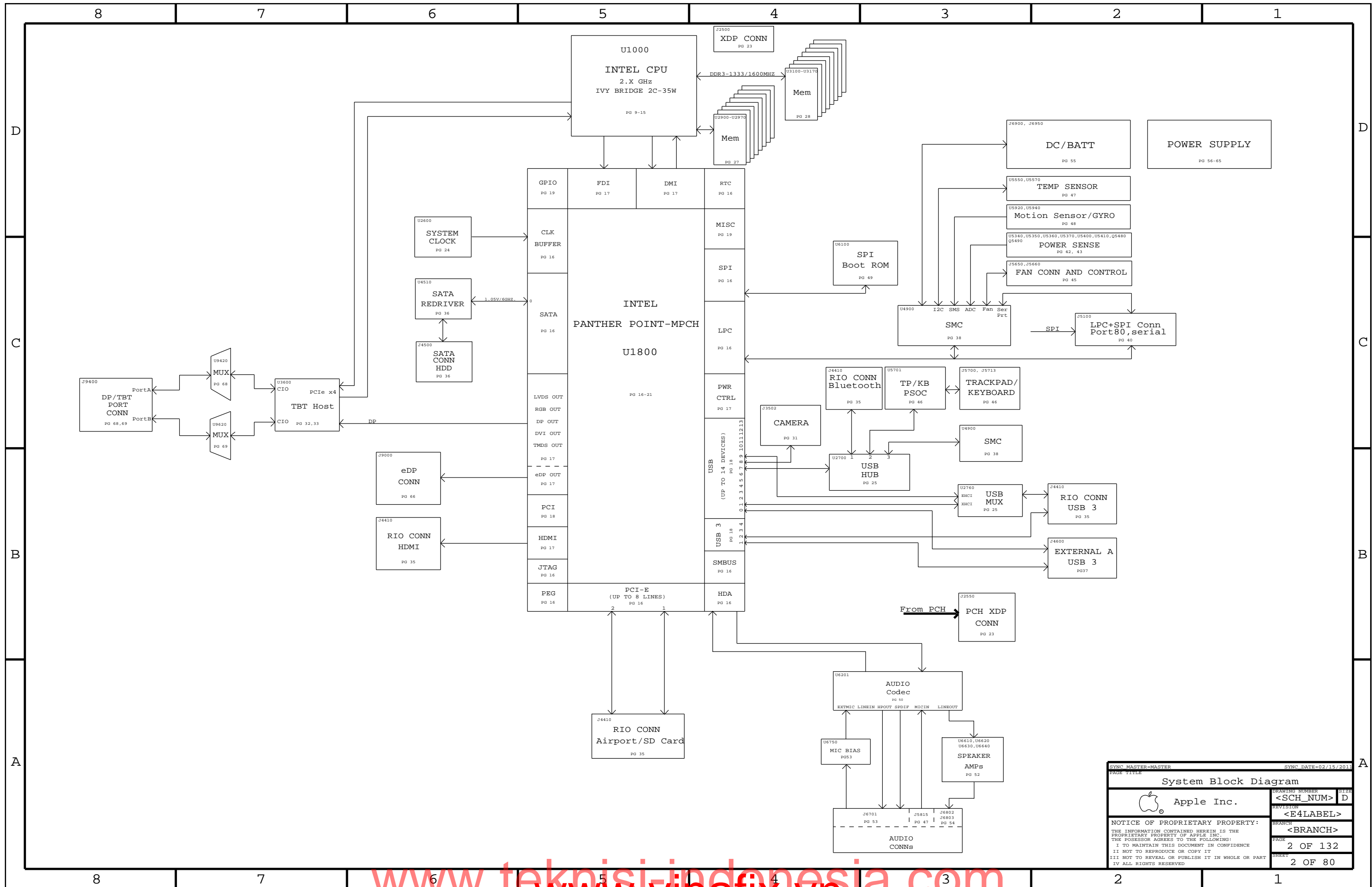
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Schematic / PCB #'s

| PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION |
|-------------|-----|--------------------|---------------|----------|------------|
| 051-9216 | 1 | SCHEM,MLB,D1 | SCH | CRITICAL | |
| 820-3462 | 1 | PCBP,MLB (NEW) ,D1 | PCB | CRITICAL | |

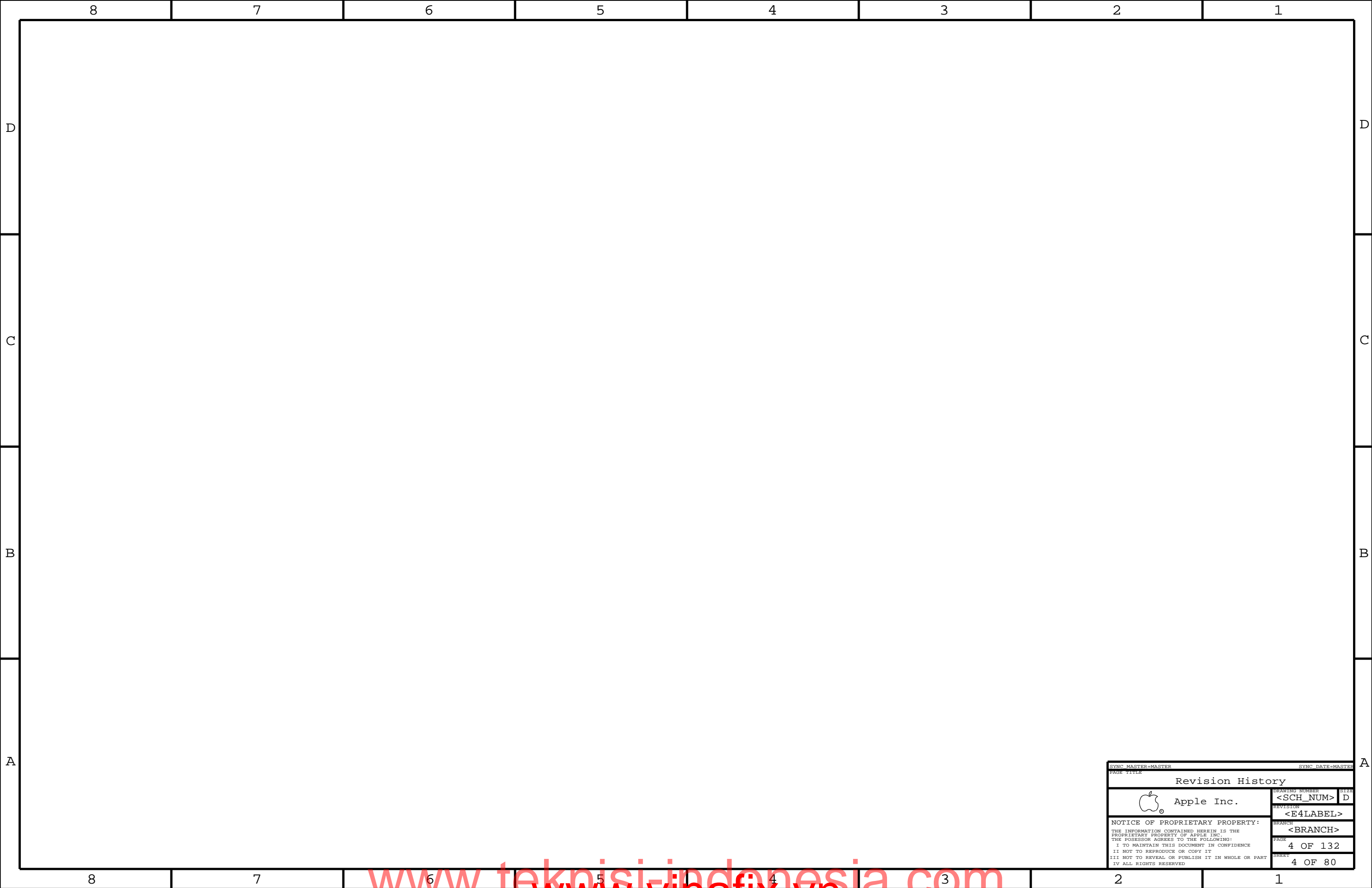
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| DRAWING TITLE | | | |
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| SCHEM,MLB,D1 | | | |
|  Apple Inc. | DRAWING NUMBER | SIZE | |
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| | REVISION | | |
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| | BOM Variants | | | Bar Code Labels / EEE #'s | | | Alternate Parts | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table><tr><th>BOM NUMBER</th><th>BOM NAME</th><th>BOM OPTIONS</th></tr><tr><td>085-4094</td><td>DEV BOM,MLB,D1</td><td>D1_DEVEL:PVB</td></tr><tr><td>607-9189</td><td>CMN PTS,PCBA,MLB,D1</td><td>D1_COMMON</td></tr><tr><td>639-3288</td><td>PCBA,2.5G,SS 6GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.5G,PCH_C1,EEEE:DWP2,RAM_6G_SAMSUNG_35NM_CHO_1600_S</td></tr><tr><td>639-3289</td><td>PCBA,2.9G,SS 6GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.9G,PCH_C1,EEEE:DWNV,RAM_6G_SAMSUNG_35NM_CHO_1600_S</td></tr><tr><td>639-3290</td><td>PCBA,2.5G,HYNIX 6GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.5G,PCH_C1,EEEE:DWP0,RAM_6G_HYNIX_CHO_1600_S</td></tr><tr><td>639-3291</td><td>PCBA,2.9G,HYNIX 6GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.9G,PCH_C1,EEEE:DNNW,RAM_6G_HYNIX_CHO_1600_S</td></tr><tr><td>639-3694</td><td>PCBA,2.5G,SS 8GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.5G,PCH_C1,EEEE:F16P,RAM_4G_SAMSUNG_35NM_1600_S</td></tr><tr><td>639-3695</td><td>PCBA,2.9G,SS 8GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.9G,PCH_C1,EEEE:F16M,RAM_4G_SAMSUNG_35NM_1600_S</td></tr><tr><td>639-3696</td><td>PCBA,2.9G,HYNIX 8GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.9G,PCH_C1,EEEE:F16N,RAM_4G_HYNIX_1600_S</td></tr><tr><td>639-3697</td><td>PCBA,2.5G,HYNIX 8GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.5G,PCH_C1,EEEE:F16V,RAM_4G_HYNIX_1600_S</td></tr><tr><td>639-3773</td><td>PCBA,2.5G,ELPIDA 6GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.5G,PCH_C1,EEEE:F26M,RAM_6G_ELPIDA_CHO_1600_S</td></tr><tr><td>639-3772</td><td>PCBA,2.9G,ELPIDA 6GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.9G,PCH_C1,EEEE:F26J,RAM_6G_ELPIDA_CHO_1600_S</td></tr><tr><td>639-3770</td><td>PCBA,2.5G,ELPIDA 8GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.5G,PCH_C1,EEEE:F26L,RAM_4G_ELPIDA_1600_S</td></tr><tr><td>639-3771</td><td>PCBA,2.9G,ELPIDA 8GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.9G,PCH_C1,EEEE:F26H,RAM_4G_ELPIDA_1600_S</td></tr><tr><td>639-3849</td><td>PCBA,2.5G,MICRON 6GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.5G,PCH_C1,EEEE:F2WT,RAM_6G_MICRON_CHO_1600_S</td></tr><tr><td>639-3848</td><td>PCBA,2.9G,MICRON 6GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.9G,PCH_C1,EEEE:F2WR,RAM_6G_MICRON_CHO_1600_S</td></tr><tr><td>639-3873</td><td>PCBA,2.6G,SS 6GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.6G,PCH_C1,EEEE:F33H,RAM_6G_SAMSUNG_35NM_CHO_1600_S</td></tr><tr><td>639-3874</td><td>PCBA,2.8G,SS 6GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.8G,PCH_C1,EEEE:F33P,RAM_6G_SAMSUNG_35NM_CHO_1600_S</td></tr><tr><td>639-3875</td><td>PCBA,2.6G,HYNIX 6GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.6G,PCH_C1,EEEE:F33L,RAM_6G_HYNIX_CHO_1600_S</td></tr><tr><td>639-3876</td><td>PCBA,2.8G,HYNIX 6GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.8G,PCH_C1,EEEE:F339,RAM_6G_HYNIX_CHO_1600_S</td></tr><tr><td>639-3881</td><td>PCBA,2.6G,SS 8GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.6G,PCH_C1,EEEE:F33G,RAM_4G_SAMSUNG_35NM_1600_S</td></tr><tr><td>639-3882</td><td>PCBA,2.8G,SS 8GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.8G,PCH_C1,EEEE:F33C,RAM_4G_SAMSUNG_35NM_1600_S</td></tr><tr><td>639-3884</td><td>PCBA,2.8G,HYNIX 8GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.8G,PCH_C1,EEEE:F337,RAM_4G_HYNIX_1600_S</td></tr><tr><td>639-3883</td><td>PCBA,2.6G,HYNIX 8GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.6G,PCH_C1,EEEE:F33D,RAM_4G_HYNIX_1600_S</td></tr><tr><td>639-3877</td><td>PCBA,2.6G,ELPIDA 6GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.6G,PCH_C1,EEEE:F33Q,RAM_6G_ELPIDA_CHO_1600_S</td></tr><tr><td>639-3878</td><td>PCBA,2.8G,ELPIDA 6GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.8G,PCH_C1,EEEE:F338,RAM_6G_ELPIDA_CHO_1600_S</td></tr><tr><td>639-3885</td><td>PCBA,2.6G,ELPIDA 8GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.6G,PCH_C1,EEEE:F33J,RAM_4G_ELPIDA_1600_S</td></tr><tr><td>639-3886</td><td>PCBA,2.8G,ELPIDA 8GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.8G,PCH_C1,EEEE:F33N,RAM_4G_ELPIDA_1600_S</td></tr><tr><td>639-3879</td><td>PCBA,2.6G,MICRON 6GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.6G,PCH_C1,EEEE:F33M,RAM_6G_MICRON_CHO_1600_S</td></tr><tr><td>639-3880</td><td>PCBA,2.8G,MICRON 6GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.8G,PCH_C1,EEEE:F336,RAM_6G_MICRON_CHO_1600_S</td></tr><tr><td>639-3846</td><td>PCBA,2.5G,MICRON 8GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.5G,PCH_C1,EEEE:F2WV,RAM_4G_MICRON_1600_S</td></tr><tr><td>639-3847</td><td>PCBA,2.9G,MICRON 8GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.9G,PCH_C1,EEEE:F2WQ,RAM_4G_MICRON_1600_S</td></tr><tr><td>639-3887</td><td>PCBA,2.6G,MICRON 8GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.6G,PCH_C1,EEEE:F33K,RAM_4G_MICRON_1600_S</td></tr><tr><td>639-3888</td><td>PCBA,2.8G,MICRON 8GB,MLB,D1</td><td>DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.8G,PCH_C1,EEEE:F33F,RAM_4G_MICRON_1600_S</td></tr></table> | BOM NUMBER | BOM NAME | BOM OPTIONS | 085-4094 | DEV BOM,MLB,D1 | D1_DEVEL:PVB | 607-9189 | CMN PTS,PCBA,MLB,D1 | D1_COMMON | 639-3288 | PCBA,2.5G,SS 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.5G,PCH_C1,EEEE:DWP2,RAM_6G_SAMSUNG_35NM_CHO_1600_S | 639-3289 | PCBA,2.9G,SS 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.9G,PCH_C1,EEEE:DWNV,RAM_6G_SAMSUNG_35NM_CHO_1600_S | 639-3290 | PCBA,2.5G,HYNIX 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.5G,PCH_C1,EEEE:DWP0,RAM_6G_HYNIX_CHO_1600_S | 639-3291 | PCBA,2.9G,HYNIX 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.9G,PCH_C1,EEEE:DNNW,RAM_6G_HYNIX_CHO_1600_S | 639-3694 | PCBA,2.5G,SS 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.5G,PCH_C1,EEEE:F16P,RAM_4G_SAMSUNG_35NM_1600_S | 639-3695 | PCBA,2.9G,SS 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.9G,PCH_C1,EEEE:F16M,RAM_4G_SAMSUNG_35NM_1600_S | 639-3696 | PCBA,2.9G,HYNIX 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.9G,PCH_C1,EEEE:F16N,RAM_4G_HYNIX_1600_S | 639-3697 | PCBA,2.5G,HYNIX 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.5G,PCH_C1,EEEE:F16V,RAM_4G_HYNIX_1600_S | 639-3773 | PCBA,2.5G,ELPIDA 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.5G,PCH_C1,EEEE:F26M,RAM_6G_ELPIDA_CHO_1600_S | 639-3772 | PCBA,2.9G,ELPIDA 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.9G,PCH_C1,EEEE:F26J,RAM_6G_ELPIDA_CHO_1600_S | 639-3770 | PCBA,2.5G,ELPIDA 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.5G,PCH_C1,EEEE:F26L,RAM_4G_ELPIDA_1600_S | 639-3771 | PCBA,2.9G,ELPIDA 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.9G,PCH_C1,EEEE:F26H,RAM_4G_ELPIDA_1600_S | 639-3849 | PCBA,2.5G,MICRON 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.5G,PCH_C1,EEEE:F2WT,RAM_6G_MICRON_CHO_1600_S | 639-3848 | PCBA,2.9G,MICRON 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.9G,PCH_C1,EEEE:F2WR,RAM_6G_MICRON_CHO_1600_S | 639-3873 | PCBA,2.6G,SS 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.6G,PCH_C1,EEEE:F33H,RAM_6G_SAMSUNG_35NM_CHO_1600_S | 639-3874 | PCBA,2.8G,SS 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.8G,PCH_C1,EEEE:F33P,RAM_6G_SAMSUNG_35NM_CHO_1600_S | 639-3875 | PCBA,2.6G,HYNIX 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.6G,PCH_C1,EEEE:F33L,RAM_6G_HYNIX_CHO_1600_S | 639-3876 | PCBA,2.8G,HYNIX 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.8G,PCH_C1,EEEE:F339,RAM_6G_HYNIX_CHO_1600_S | 639-3881 | PCBA,2.6G,SS 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.6G,PCH_C1,EEEE:F33G,RAM_4G_SAMSUNG_35NM_1600_S | 639-3882 | PCBA,2.8G,SS 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.8G,PCH_C1,EEEE:F33C,RAM_4G_SAMSUNG_35NM_1600_S | 639-3884 | PCBA,2.8G,HYNIX 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.8G,PCH_C1,EEEE:F337,RAM_4G_HYNIX_1600_S | 639-3883 | PCBA,2.6G,HYNIX 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.6G,PCH_C1,EEEE:F33D,RAM_4G_HYNIX_1600_S | 639-3877 | PCBA,2.6G,ELPIDA 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.6G,PCH_C1,EEEE:F33Q,RAM_6G_ELPIDA_CHO_1600_S | 639-3878 | PCBA,2.8G,ELPIDA 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.8G,PCH_C1,EEEE:F338,RAM_6G_ELPIDA_CHO_1600_S | 639-3885 | PCBA,2.6G,ELPIDA 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.6G,PCH_C1,EEEE:F33J,RAM_4G_ELPIDA_1600_S | 639-3886 | PCBA,2.8G,ELPIDA 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.8G,PCH_C1,EEEE:F33N,RAM_4G_ELPIDA_1600_S | 639-3879 | PCBA,2.6G,MICRON 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.6G,PCH_C1,EEEE:F33M,RAM_6G_MICRON_CHO_1600_S | 639-3880 | PCBA,2.8G,MICRON 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.8G,PCH_C1,EEEE:F336,RAM_6G_MICRON_CHO_1600_S | 639-3846 | PCBA,2.5G,MICRON 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.5G,PCH_C1,EEEE:F2WV,RAM_4G_MICRON_1600_S | 639-3847 | PCBA,2.9G,MICRON 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.9G,PCH_C1,EEEE:F2WQ,RAM_4G_MICRON_1600_S | 639-3887 | PCBA,2.6G,MICRON 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.6G,PCH_C1,EEEE:F33K,RAM_4G_MICRON_1600_S | 639-3888 | PCBA,2.8G,MICRON 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.8G,PCH_C1,EEEE:F33F,RAM_4G_MICRON_1600_S | <table><tr><th>PART NUMBER</th><th>QTY</th><th>DESCRIPTION</th><th>REFERENCE DES</th><th>CRITICAL</th><th>BOM OPTION</th></tr><tr><td>33784181</td><td>1</td><td>IVB_QM9P_R32_R32_2.3.35W_2+2.1.0.3M_M0A</td><td>U1000</td><td>CRITICAL</td><td>CPU_IVB_2C_2.3G_R32</td></tr><tr><td>33784182</td><td>1</td><td>IVB_QM9P_R32_R32_2.4.35W_2+2.1.0.4M_M0A</td><td>U1000</td><td>CRITICAL</td><td>CPU_IVB_2C_2.4G_R32</td></tr><tr><td>33784292</td><td>1</td><td>IVB_QM74_QM_L1_2.4.35W_2+2.1.0.3M_M0A</td><td>U1000</td><td>CRITICAL</td><td>CPU_IVB_2C_2.4G_Q8</td></tr><tr><td>33784300</td><td>1</td><td>IVB_QM74_QM_L1_2.4.35W_2+2.1.0.3M_M0A</td><td>U1000</td><td>CRITICAL</td><td>CPU_IVB_2C_2.4G_Q8</td></tr><tr><td>33784302</td><td>1</td><td>IVB_QM74_QM_L1_2.4.35W_2+2.1.0.3M_M0A</td><td>U1000</td><td>CRITICAL</td><td>CPU_IVB_2C_2.4G_Q8</td></tr><tr><td>33784294</td><td>1</td><td>IVB_QM74_QM_L1_2.4.35W_2+2.1.0.4M_M0A</td><td>U1000</td><td>CRITICAL</td><td>CPU_IVB_2C_2.4G_Q8</td></tr><tr><td>33784264</td><td>1</td><td>IVB_8_R0M0_P9Q_L1_2.4.35W_2+2.1.0.3M_M0A</td><td>U1000</td><td>CRITICAL</td><td>CPU_IVB_2C_2.3G</td></tr><tr><td>33784338</td><td>1</td><td>IVB_8_R0M0_P9Q_L1_2.4.35W_2+2.1.0.3M_M0A</td><td>U1000</td><td>CRITICAL</td><td>CPU_IVB_2C_2.4G</td></tr><tr><td>33784339</td><td>1</td><td>IVB_8_R0M0_P9Q_L1_2.4.35W_2+2.1.0.3M_M0A</td><td>U1000</td><td>CRITICAL</td><td>CPU_IVB_2C_2.4G</td></tr><tr><td>33784265</td><td>1</td><td>IVB_8_R0M0_P9Q_L1_2.4.35W_2+2.1.0.4M_M0A</td><td>U1000</td><td>CRITICAL</td><td>CPU_IVB_2C_2.3G</td></tr><tr><td>33784180</td><td>1</td><td>IC_PCH_PPT-HB_SFF_R32_R32</td><td>U1800</td><td>CRITICAL</td><td>PCH_R32</td></tr><tr><td>33784235</td><td>1</td><td>IC_PCH_PPT-HB_SFF_P-Q8_Q8</td><td>U1800</td><td>CRITICAL</td><td>PCH_Q8</td></tr><tr><td>33784283</td><td>1</td><td>IC_PCH_PPT-HB_SFF_P9Q_C1</td><td>U1800</td><td>CRITICAL</td><td>PCH_C1</td></tr><tr><td>33801113</td><td>1</td><td>IC_FMP_C04_R01_R01_P9Q_288P00A_130120A</td><td>U3600</td><td>CRITICAL</td><td>FMP_R01</td></tr><tr><td>33380623</td><td>16</td><td>IC_DDRAM_20B7_254M02_10B3-1400_78P90A</td><td>U1000</td><td>CRITICAL</td><td>2G_SAMSUNG_35NM_1600_S</td></tr><tr><td>33380622</td><td>16</td><td>IC_DDRAM_20B7_254M02_10B3-1400_78P90A</td><td>U1000</td><td>CRITICAL</td><td>2G_HYNIX_1600_S</td></tr><tr><td>33380628</td><td>16</td><td>IC_DDRAM_20B3-1400_254M02_78P90A_0-01X_RLPIDA</td><td>U1000</td><td>CRITICAL</td><td>2G_RLPIDA_1600_S</td></tr><tr><td>33380649</td><td>16</td><td>IC_DDRAM_20B3-1400_254M02_78P90A_MICRON</td><td>U1000</td><td>CRITICAL</td><td>2G_MICRON_1600_S</td></tr><tr><td>33380625</td><td>16</td><td>IC_DDRAM_20B3-1400_254M02_78P90A_HYNIX</td><td>U1000</td><td>CRITICAL</td><td>4G_HYNIX_1600_S</td></tr><tr><td>33380629</td><td>16</td><td>IC_DDRAM_20B3-1400_254M02_78P90A_0-01X_RLPIDA</td><td>U1000</td><td>CRITICAL</td><td>4G_RLPIDA_1600_S</td></tr><tr><td>33380624</td><td>16</td><td>IC_DDRAM_20B3-1400_254M02_78P90A_015_SAM0280</td><td>U1000</td><td>CRITICAL</td><td>4G_SAMSUNG_35NM_1600_S</td></tr><tr><td>33380623</td><td>8</td><td>IC_DDRAM_20B7_254M02_10B3-1400_78P90A</td><td>U1000</td><td>CRITICAL</td><td>6G_SAMSUNG_28NM_CHO_1600_S</td></tr><tr><td>33380624</td><td>8</td><td>IC_DDRAM_20B3-1400_254M02_78P90A_0-01X_RLPIDA</td><td>U1000</td><td>CRITICAL</td><td>6G_SAMSUNG_28NM_CHO_1600_S</td></tr><tr><td>33380622</td><td>8</td><td>IC_DDRAM_20B7_254M02_10B3-1400_78P90A</td><td>U1000</td><td>CRITICAL</td><td>6G_HYNIX_CHO_1600_S</td></tr><tr><td>33380625</td><td>8</td><td>IC_DDRAM_20B3-1400_254M02_78P90A_HYNIX</td><td>U1000</td><td>CRITICAL</td><td>6G_HYNIX_CHO_1600_S</td></tr><tr><td>33380628</td><td>8</td><td>IC_DDRAM_20B3-1400_254M02_78P90A_0-01X_RLPIDA</td><td>U1000</td><td>CRITICAL</td><td>6G_RLPIDA_CHO_1600_S</td></tr><tr><td>33380629</td><td>8</td><td>IC_DDRAM_20B3-1400_254M02_78P90A_0-01X_RLPIDA</td><td>U1000</td><td>CRITICAL</td><td>6G_RLPIDA_CHO_1600_S</td></tr><tr><td>33380660</td><td>16</td><td>IC_DDRAM_20B7-1400_254M02_78P90A_MICRON</td><td>U1000</td><td>CRITICAL</td><td>6G_MICRON_1600_S</td></tr><tr><td>33380649</td><td>8</td><td>IC_DDRAM_20B3-1400_254M02_78P90A_MICRON</td><td>U1000</td><td>CRITICAL</td><td>6G_MICRON_CHO_1600_S</td></tr><tr><td>33380660</td><td>8</td><td>IC_DDRAM_20B3-1400_254M02_78P90A_MICRON</td><td>U1000</td><td>CRITICAL</td><td>6G_MICRON_CHO_1600_S</td></tr></table> | PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION | 33784181 | 1 | IVB_QM9P_R32_R32_2.3.35W_2+2.1.0.3M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.3G_R32 | 33784182 | 1 | IVB_QM9P_R32_R32_2.4.35W_2+2.1.0.4M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.4G_R32 | 33784292 | 1 | IVB_QM74_QM_L1_2.4.35W_2+2.1.0.3M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.4G_Q8 | 33784300 | 1 | IVB_QM74_QM_L1_2.4.35W_2+2.1.0.3M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.4G_Q8 | 33784302 | 1 | IVB_QM74_QM_L1_2.4.35W_2+2.1.0.3M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.4G_Q8 | 33784294 | 1 | IVB_QM74_QM_L1_2.4.35W_2+2.1.0.4M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.4G_Q8 | 33784264 | 1 | IVB_8_R0M0_P9Q_L1_2.4.35W_2+2.1.0.3M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.3G | 33784338 | 1 | IVB_8_R0M0_P9Q_L1_2.4.35W_2+2.1.0.3M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.4G | 33784339 | 1 | IVB_8_R0M0_P9Q_L1_2.4.35W_2+2.1.0.3M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.4G | 33784265 | 1 | IVB_8_R0M0_P9Q_L1_2.4.35W_2+2.1.0.4M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.3G | 33784180 | 1 | IC_PCH_PPT-HB_SFF_R32_R32 | U1800 | CRITICAL | PCH_R32 | 33784235 | 1 | IC_PCH_PPT-HB_SFF_P-Q8_Q8 | U1800 | CRITICAL | PCH_Q8 | 33784283 | 1 | IC_PCH_PPT-HB_SFF_P9Q_C1 | U1800 | CRITICAL | PCH_C1 | 33801113 | 1 | IC_FMP_C04_R01_R01_P9Q_288P00A_130120A | U3600 | CRITICAL | FMP_R01 | 33380623 | 16 | IC_DDRAM_20B7_254M02_10B3-1400_78P90A | U1000 | CRITICAL | 2G_SAMSUNG_35NM_1600_S | 33380622 | 16 | IC_DDRAM_20B7_254M02_10B3-1400_78P90A | U1000 | CRITICAL | 2G_HYNIX_1600_S | 33380628 | 16 | IC_DDRAM_20B3-1400_254M02_78P90A_0-01X_RLPIDA | U1000 | CRITICAL | 2G_RLPIDA_1600_S | 33380649 | 16 | IC_DDRAM_20B3-1400_254M02_78P90A_MICRON | U1000 | CRITICAL | 2G_MICRON_1600_S | 33380625 | 16 | IC_DDRAM_20B3-1400_254M02_78P90A_HYNIX | U1000 | CRITICAL | 4G_HYNIX_1600_S | 33380629 | 16 | IC_DDRAM_20B3-1400_254M02_78P90A_0-01X_RLPIDA | U1000 | CRITICAL | 4G_RLPIDA_1600_S | 33380624 | 16 | IC_DDRAM_20B3-1400_254M02_78P90A_015_SAM0280 | U1000 | CRITICAL | 4G_SAMSUNG_35NM_1600_S | 33380623 | 8 | IC_DDRAM_20B7_254M02_10B3-1400_78P90A | U1000 | CRITICAL | 6G_SAMSUNG_28NM_CHO_1600_S | 33380624 | 8 | IC_DDRAM_20B3-1400_254M02_78P90A_0-01X_RLPIDA | U1000 | CRITICAL | 6G_SAMSUNG_28NM_CHO_1600_S | 33380622 | 8 | IC_DDRAM_20B7_254M02_10B3-1400_78P90A | U1000 | CRITICAL | 6G_HYNIX_CHO_1600_S | 33380625 | 8 | IC_DDRAM_20B3-1400_254M02_78P90A_HYNIX | U1000 | CRITICAL | 6G_HYNIX_CHO_1600_S | 33380628 | 8 | IC_DDRAM_20B3-1400_254M02_78P90A_0-01X_RLPIDA | U1000 | CRITICAL | 6G_RLPIDA_CHO_1600_S | 33380629 | 8 | IC_DDRAM_20B3-1400_254M02_78P90A_0-01X_RLPIDA | U1000 | CRITICAL | 6G_RLPIDA_CHO_1600_S | 33380660 | 16 | IC_DDRAM_20B7-1400_254M02_78P90A_MICRON | U1000 | CRITICAL | 6G_MICRON_1600_S | 33380649 | 8 | IC_DDRAM_20B3-1400_254M02_78P90A_MICRON | U1000 | CRITICAL | 6G_MICRON_CHO_1600_S | 33380660 | 8 | IC_DDRAM_20B3-1400_254M02_78P90A_MICRON | U1000 | CRITICAL | 6G_MICRON_CHO_1600_S | <table><tr><th>PART NUMBER</th><th>QTY</th><th>DESCRIPTION</th><th>REFERENCE DES</th><th>CRITICAL</th><th>BOM OPTION</th></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:DV7Q]</td><td>CRITICAL</td><td>EEEE:DV7Q</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:DWNV]</td><td>CRITICAL</td><td>EEEE:DWNV</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:DNNW]</td><td>CRITICAL</td><td>EEEE:DNNW</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:DWP0]</td><td>CRITICAL</td><td>EEEE:DWP0</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:DWP2]</td><td>CRITICAL</td><td>EEEE:DWP2</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:F16M]</td><td>CRITICAL</td><td>EEEE:F16M</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:F16N]</td><td>CRITICAL</td><td>EEEE:F16N</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:F16P]</td><td>CRITICAL</td><td>EEEE:F16P</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:F16V]</td><td>CRITICAL</td><td>EEEE:F16V</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:F26H]</td><td>CRITICAL</td><td>EEEE:F26H</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:F26J]</td><td>CRITICAL</td><td>EEEE:F26J</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:F26L]</td><td>CRITICAL</td><td>EEEE:F26L</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:F26M]</td><td>CRITICAL</td><td>EEEE:F26M</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:F2WQ]</td><td>CRITICAL</td><td>EEEE:F2WQ</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:F2WR]</td><td>CRITICAL</td><td>EEEE:F2WR</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:F2WT]</td><td>CRITICAL</td><td>EEEE:F2WT</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:F2WV]</td><td>CRITICAL</td><td>EEEE:F2WV</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:F336]</td><td>CRITICAL</td><td>EEEE:F336</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:F337]</td><td>CRITICAL</td><td>EEEE:F337</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:F338]</td><td>CRITICAL</td><td>EEEE:F338</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:F339]</td><td>CRITICAL</td><td>EEEE:F339</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:F33C]</td><td>CRITICAL</td><td>EEEE:F33C</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:F33D]</td><td>CRITICAL</td><td>EEEE:F33D</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:F33F]</td><td>CRITICAL</td><td>EEEE:F33F</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:F33G]</td><td>CRITICAL</td><td>EEEE:F33G</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:F33H]</td><td>CRITICAL</td><td>EEEE:F33H</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:F33J]</td><td>CRITICAL</td><td>EEEE:F33J</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:F33K]</td><td>CRITICAL</td><td>EEEE:F33K</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:F33L]</td><td>CRITICAL</td><td>EEEE:F33L</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:F33M]</td><td>CRITICAL</td><td>EEEE:F33M</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:F33N]</td><td>CRITICAL</td><td>EEEE:F33N</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:F33P]</td><td>CRITICAL</td><td>EEEE:F33P</td></tr><tr><td>826-4393</td><td>1</td><td>LBL,P/N LABEL,PCB,28MM X 6 MM</td><td>[EEEE:F33Q]</td><td>CRITICAL</td><td>EEEE:F33Q</td></tr></table> | PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:DV7Q] | CRITICAL | EEEE:DV7Q | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:DWNV] | CRITICAL | EEEE:DWNV | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:DNNW] | CRITICAL | EEEE:DNNW | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:DWP0] | CRITICAL | EEEE:DWP0 | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:DWP2] | CRITICAL | EEEE:DWP2 | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F16M] | CRITICAL | EEEE:F16M | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F16N] | CRITICAL | EEEE:F16N | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F16P] | CRITICAL | EEEE:F16P | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F16V] | CRITICAL | EEEE:F16V | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F26H] | CRITICAL | EEEE:F26H | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F26J] | CRITICAL | EEEE:F26J | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F26L] | CRITICAL | EEEE:F26L | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F26M] | CRITICAL | EEEE:F26M | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F2WQ] | CRITICAL | EEEE:F2WQ | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F2WR] | CRITICAL | EEEE:F2WR | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F2WT] | CRITICAL | EEEE:F2WT | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F2WV] | CRITICAL | EEEE:F2WV | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F336] | CRITICAL | EEEE:F336 | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F337] | CRITICAL | EEEE:F337 | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F338] | CRITICAL | EEEE:F338 | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F339] | CRITICAL | EEEE:F339 | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F33C] | CRITICAL | EEEE:F33C | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F33D] | CRITICAL | EEEE:F33D | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F33F] | CRITICAL | EEEE:F33F | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F33G] | CRITICAL | EEEE:F33G | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F33H] | CRITICAL | EEEE:F33H | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F33J] | CRITICAL | EEEE:F33J | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F33K] | CRITICAL | EEEE:F33K | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F33L] | CRITICAL | EEEE:F33L | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F33M] | CRITICAL | EEEE:F33M | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F33N] | CRITICAL | EEEE:F33N | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F33P] | CRITICAL | EEEE:F33P | 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F33Q] | CRITICAL | EEEE:F33Q | <table><tr><th>PART NUMBER</th><th>ALTERNATE FOR PART NUMBER</th><th>BOM OPTION</th><th>REF DES</th><th>COMMENTS:</th></tr><tr><td>128S0364</td><td>128S0264</td><td></td><td>ALL</td><td>Kemet alt to Sanyo</td></tr><tr><td>128S0303</td><td>128S0353</td><td></td><td>ALL</td><td>Panasonic alt to Sanyo</td></tr><tr><td>376S0953</td><td>376S0958</td><td></td><td>ALL</td><td>RENESAS ALT TO FAIRCHILD</td></tr><tr><td>128S0311</td><td>128S0329</td><td></td><td>ALL</td><td>NEC ALT TO SANYO</td></tr><tr><td>353S3237</td><td>353S2192</td><td></td><td>ALL</td><td>TI ALT TO INTERSIL</td></tr><tr><td>376S0977</td><td>376S0859</td><td></td><td>ALL</td><td>Diodes alt to Toshiba</td></tr><tr><td>138S0722</td><td>138S0691</td><td></td><td>ALL</td><td>Multi alt to Samsung</td></tr><tr><td>197S0487</td><td>197S0485</td><td></td><td>ALL</td><td>Spcon alt to TXC</td></tr><tr><td>197S0484</td><td>197S0485</td><td></td><td>ALL</td><td>NEC alt to TXC</td></tr><tr><td>197S0479</td><td>197S0486</td><td></td><td>ALL</td><td>Spcon alt to TXC</td></tr><tr><td>197S0478</td><td>197S0486</td><td></td><td>ALL</td><td>NEC alt to TXC</td></tr><tr><td>197S0481</td><td>197S0480</td><td></td><td>ALL</td><td>Spcon alt to NEC</td></tr><tr><td>376S0972</td><td>376S0612</td><td></td><td>ALL</td><td>ROM alt to Toshiba</td></tr><tr><td>376S1053</td><td>376S0604</td><td></td><td>ALL</td><td>Diodes alt to Fairchild</td></tr><tr><td>376S1017</td><td>376S0612</td><td></td><td>ALL</td><td>ROM alt to Toshiba</td></tr><tr><td>138S0624</td><td>138S0677</td><td></td><td>ALL</td><td>Murata alt to Taiyo Yuden</td></tr><tr><td>138S0681</td><td>138S0638</td><td></td><td>ALL</td><td>Taiyo Yuden alt to Samsung</td></tr><tr><td>152S1703</td><td>152S1701</td><td></td><td>ALL</td><td>Susida alt to Cytac</td></tr><tr><td>371S0730</td><td>371S0740</td><td></td><td>ALL</td><td>Diodes alt to NXP</td></tr><tr><td>138S0725</td><td>138S0724</td><td></td><td>ALL</td><td>Samsung alt to Murata</td></tr><tr><td>138S0727</td><td>138S0709</td><td></td><td>ALL</td><td>Samsung alt to Murata</td></tr><tr><td>376S1080</td><td>376S0820</td><td></td><td>ALL</td><td>Diodes alt to OM Semi</td></tr><tr><td>372S0186</td><td>372S0185</td><td></td><td>ALL</td><td>NXP alt to Diodes</td></tr><tr><td>128S0363</td><td>128S0296</td><td></td><td>ALL</td><td>NEC alt to Sanyo</td></tr><tr><td>376S0903</td><td>376S0796</td><td></td><td>ALL</td><td>Fairchild alt to Siliconix</td></tr><tr><td>740S0144</td><td>740S0118</td><td></td><td>ALL</td><td>Littlefuse alt to Polytronic</td></tr><tr><td>152S1539</td><td>152S1598</td><td></td><td>ALL</td><td>Cytac alt to Toko</td></tr><tr><td>152S1645</td><td>152S0461</td><td></td><td>ALL</td><td>Cytac alt to Vishay</td></tr><tr><td>155S0667</td><td>155S0583</td><td></td><td>ALL</td><td>ROD LATES ALT TO MURATA</td></tr><tr><td>103S0305</td><td>103S0266</td><td></td><td>ALL</td><td>Yageo alt to Cytac</td></tr><tr><td>112S0274</td><td>112S0254</td><td></td><td>ALL</td><td>Yageo alt to Cytac</td></tr><tr><td>376S1113</td><td>376S1110</td><td></td><td>ALL</td><td>Diodes to AOE</td></tr><tr><td>155S0588</td><td>155S0367</td><td></td><td>ALL</td><td>MURATA ALT TO MURATA</td></tr></table> | PART NUMBER | ALTERNATE FOR PART NUMBER | BOM OPTION | REF DES | COMMENTS: | 128S0364 | 128S0264 | | ALL | Kemet alt to Sanyo | 128S0303 | 128S0353 | | ALL | Panasonic alt to Sanyo | 376S0953 | 376S0958 | | ALL | RENESAS ALT TO FAIRCHILD | 128S0311 | 128S0329 | | ALL | NEC ALT TO SANYO | 353S3237 | 353S2192 | | ALL | TI ALT TO INTERSIL | 376S0977 | 376S0859 | | ALL | Diodes alt to Toshiba | 138S0722 | 138S0691 | | ALL | Multi alt to Samsung | 197S0487 | 197S0485 | | ALL | Spcon alt to TXC | 197S0484 | 197S0485 | | ALL | NEC alt to TXC | 197S0479 | 197S0486 | | ALL | Spcon alt to TXC | 197S0478 | 197S0486 | | ALL | NEC alt to TXC | 197S0481 | 197S0480 | | ALL | Spcon alt to NEC | 376S0972 | 376S0612 | | ALL | ROM alt to Toshiba | 376S1053 | 376S0604 | | ALL | Diodes alt to Fairchild | 376S1017 | 376S0612 | | ALL | ROM alt to Toshiba | 138S0624 | 138S0677 | | ALL | Murata alt to Taiyo Yuden | 138S0681 | 138S0638 | | ALL | Taiyo Yuden alt to Samsung | 152S1703 | 152S1701 | | ALL | Susida alt to Cytac | 371S0730 | 371S0740 | | ALL | Diodes alt to NXP | 138S0725 | 138S0724 | | ALL | Samsung alt to Murata | 138S0727 | 138S0709 | | ALL | Samsung alt to Murata | 376S1080 | 376S0820 | | ALL | Diodes alt to OM Semi | 372S0186 | 372S0185 | | ALL | NXP alt to Diodes | 128S0363 | 128S0296 | | ALL | NEC alt to Sanyo | 376S0903 | 376S0796 | | ALL | Fairchild alt to Siliconix | 740S0144 | 740S0118 | | ALL | Littlefuse alt to Polytronic | 152S1539 | 152S1598 | | ALL | Cytac alt to Toko | 152S1645 | 152S0461 | | ALL | Cytac alt to Vishay | 155S0667 | 155S0583 | | ALL | ROD LATES ALT TO MURATA | 103S0305 | 103S0266 | | ALL | Yageo alt to Cytac | 112S0274 | 112S0254 | | ALL | Yageo alt to Cytac | 376S1113 | 376S1110 | | ALL | Diodes to AOE | 155S0588 | 155S0367 | | ALL | MURATA ALT TO MURATA |
| BOM NUMBER | BOM NAME | BOM OPTIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 085-4094 | DEV BOM,MLB,D1 | D1_DEVEL:PVB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 607-9189 | CMN PTS,PCBA,MLB,D1 | D1_COMMON | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3288 | PCBA,2.5G,SS 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.5G,PCH_C1,EEEE:DWP2,RAM_6G_SAMSUNG_35NM_CHO_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3289 | PCBA,2.9G,SS 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.9G,PCH_C1,EEEE:DWNV,RAM_6G_SAMSUNG_35NM_CHO_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3290 | PCBA,2.5G,HYNIX 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.5G,PCH_C1,EEEE:DWP0,RAM_6G_HYNIX_CHO_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3291 | PCBA,2.9G,HYNIX 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.9G,PCH_C1,EEEE:DNNW,RAM_6G_HYNIX_CHO_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3694 | PCBA,2.5G,SS 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.5G,PCH_C1,EEEE:F16P,RAM_4G_SAMSUNG_35NM_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3695 | PCBA,2.9G,SS 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.9G,PCH_C1,EEEE:F16M,RAM_4G_SAMSUNG_35NM_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3696 | PCBA,2.9G,HYNIX 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.9G,PCH_C1,EEEE:F16N,RAM_4G_HYNIX_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3697 | PCBA,2.5G,HYNIX 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.5G,PCH_C1,EEEE:F16V,RAM_4G_HYNIX_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3773 | PCBA,2.5G,ELPIDA 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.5G,PCH_C1,EEEE:F26M,RAM_6G_ELPIDA_CHO_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3772 | PCBA,2.9G,ELPIDA 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.9G,PCH_C1,EEEE:F26J,RAM_6G_ELPIDA_CHO_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3770 | PCBA,2.5G,ELPIDA 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.5G,PCH_C1,EEEE:F26L,RAM_4G_ELPIDA_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3771 | PCBA,2.9G,ELPIDA 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.9G,PCH_C1,EEEE:F26H,RAM_4G_ELPIDA_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3849 | PCBA,2.5G,MICRON 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.5G,PCH_C1,EEEE:F2WT,RAM_6G_MICRON_CHO_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3848 | PCBA,2.9G,MICRON 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.9G,PCH_C1,EEEE:F2WR,RAM_6G_MICRON_CHO_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3873 | PCBA,2.6G,SS 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.6G,PCH_C1,EEEE:F33H,RAM_6G_SAMSUNG_35NM_CHO_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3874 | PCBA,2.8G,SS 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.8G,PCH_C1,EEEE:F33P,RAM_6G_SAMSUNG_35NM_CHO_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3875 | PCBA,2.6G,HYNIX 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.6G,PCH_C1,EEEE:F33L,RAM_6G_HYNIX_CHO_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3876 | PCBA,2.8G,HYNIX 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.8G,PCH_C1,EEEE:F339,RAM_6G_HYNIX_CHO_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3881 | PCBA,2.6G,SS 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.6G,PCH_C1,EEEE:F33G,RAM_4G_SAMSUNG_35NM_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3882 | PCBA,2.8G,SS 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.8G,PCH_C1,EEEE:F33C,RAM_4G_SAMSUNG_35NM_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3884 | PCBA,2.8G,HYNIX 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.8G,PCH_C1,EEEE:F337,RAM_4G_HYNIX_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3883 | PCBA,2.6G,HYNIX 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.6G,PCH_C1,EEEE:F33D,RAM_4G_HYNIX_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3877 | PCBA,2.6G,ELPIDA 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.6G,PCH_C1,EEEE:F33Q,RAM_6G_ELPIDA_CHO_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3878 | PCBA,2.8G,ELPIDA 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.8G,PCH_C1,EEEE:F338,RAM_6G_ELPIDA_CHO_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3885 | PCBA,2.6G,ELPIDA 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.6G,PCH_C1,EEEE:F33J,RAM_4G_ELPIDA_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3886 | PCBA,2.8G,ELPIDA 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.8G,PCH_C1,EEEE:F33N,RAM_4G_ELPIDA_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3879 | PCBA,2.6G,MICRON 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.6G,PCH_C1,EEEE:F33M,RAM_6G_MICRON_CHO_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3880 | PCBA,2.8G,MICRON 6GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.8G,PCH_C1,EEEE:F336,RAM_6G_MICRON_CHO_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3846 | PCBA,2.5G,MICRON 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.5G,PCH_C1,EEEE:F2WV,RAM_4G_MICRON_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3847 | PCBA,2.9G,MICRON 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.9G,PCH_C1,EEEE:F2WQ,RAM_4G_MICRON_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3887 | PCBA,2.6G,MICRON 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.6G,PCH_C1,EEEE:F33K,RAM_4G_MICRON_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 639-3888 | PCBA,2.8G,MICRON 8GB,MLB,D1 | DEVEL_BOM,BASE_BOM,CPU_IVB_2C_2.8G,PCH_C1,EEEE:F33F,RAM_4G_MICRON_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33784181 | 1 | IVB_QM9P_R32_R32_2.3.35W_2+2.1.0.3M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.3G_R32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33784182 | 1 | IVB_QM9P_R32_R32_2.4.35W_2+2.1.0.4M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.4G_R32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33784292 | 1 | IVB_QM74_QM_L1_2.4.35W_2+2.1.0.3M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.4G_Q8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33784300 | 1 | IVB_QM74_QM_L1_2.4.35W_2+2.1.0.3M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.4G_Q8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33784302 | 1 | IVB_QM74_QM_L1_2.4.35W_2+2.1.0.3M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.4G_Q8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33784294 | 1 | IVB_QM74_QM_L1_2.4.35W_2+2.1.0.4M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.4G_Q8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33784264 | 1 | IVB_8_R0M0_P9Q_L1_2.4.35W_2+2.1.0.3M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.3G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33784338 | 1 | IVB_8_R0M0_P9Q_L1_2.4.35W_2+2.1.0.3M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.4G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33784339 | 1 | IVB_8_R0M0_P9Q_L1_2.4.35W_2+2.1.0.3M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.4G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33784265 | 1 | IVB_8_R0M0_P9Q_L1_2.4.35W_2+2.1.0.4M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.3G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33784180 | 1 | IC_PCH_PPT-HB_SFF_R32_R32 | U1800 | CRITICAL | PCH_R32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33784235 | 1 | IC_PCH_PPT-HB_SFF_P-Q8_Q8 | U1800 | CRITICAL | PCH_Q8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33784283 | 1 | IC_PCH_PPT-HB_SFF_P9Q_C1 | U1800 | CRITICAL | PCH_C1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33801113 | 1 | IC_FMP_C04_R01_R01_P9Q_288P00A_130120A | U3600 | CRITICAL | FMP_R01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33380623 | 16 | IC_DDRAM_20B7_254M02_10B3-1400_78P90A | U1000 | CRITICAL | 2G_SAMSUNG_35NM_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33380622 | 16 | IC_DDRAM_20B7_254M02_10B3-1400_78P90A | U1000 | CRITICAL | 2G_HYNIX_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33380628 | 16 | IC_DDRAM_20B3-1400_254M02_78P90A_0-01X_RLPIDA | U1000 | CRITICAL | 2G_RLPIDA_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33380649 | 16 | IC_DDRAM_20B3-1400_254M02_78P90A_MICRON | U1000 | CRITICAL | 2G_MICRON_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33380625 | 16 | IC_DDRAM_20B3-1400_254M02_78P90A_HYNIX | U1000 | CRITICAL | 4G_HYNIX_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33380629 | 16 | IC_DDRAM_20B3-1400_254M02_78P90A_0-01X_RLPIDA | U1000 | CRITICAL | 4G_RLPIDA_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33380624 | 16 | IC_DDRAM_20B3-1400_254M02_78P90A_015_SAM0280 | U1000 | CRITICAL | 4G_SAMSUNG_35NM_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33380623 | 8 | IC_DDRAM_20B7_254M02_10B3-1400_78P90A | U1000 | CRITICAL | 6G_SAMSUNG_28NM_CHO_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33380624 | 8 | IC_DDRAM_20B3-1400_254M02_78P90A_0-01X_RLPIDA | U1000 | CRITICAL | 6G_SAMSUNG_28NM_CHO_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33380622 | 8 | IC_DDRAM_20B7_254M02_10B3-1400_78P90A | U1000 | CRITICAL | 6G_HYNIX_CHO_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33380625 | 8 | IC_DDRAM_20B3-1400_254M02_78P90A_HYNIX | U1000 | CRITICAL | 6G_HYNIX_CHO_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33380628 | 8 | IC_DDRAM_20B3-1400_254M02_78P90A_0-01X_RLPIDA | U1000 | CRITICAL | 6G_RLPIDA_CHO_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33380629 | 8 | IC_DDRAM_20B3-1400_254M02_78P90A_0-01X_RLPIDA | U1000 | CRITICAL | 6G_RLPIDA_CHO_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33380660 | 16 | IC_DDRAM_20B7-1400_254M02_78P90A_MICRON | U1000 | CRITICAL | 6G_MICRON_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33380649 | 8 | IC_DDRAM_20B3-1400_254M02_78P90A_MICRON | U1000 | CRITICAL | 6G_MICRON_CHO_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33380660 | 8 | IC_DDRAM_20B3-1400_254M02_78P90A_MICRON | U1000 | CRITICAL | 6G_MICRON_CHO_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:DV7Q] | CRITICAL | EEEE:DV7Q | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:DWNV] | CRITICAL | EEEE:DWNV | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:DNNW] | CRITICAL | EEEE:DNNW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:DWP0] | CRITICAL | EEEE:DWP0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:DWP2] | CRITICAL | EEEE:DWP2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F16M] | CRITICAL | EEEE:F16M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F16N] | CRITICAL | EEEE:F16N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F16P] | CRITICAL | EEEE:F16P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F16V] | CRITICAL | EEEE:F16V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F26H] | CRITICAL | EEEE:F26H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F26J] | CRITICAL | EEEE:F26J | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F26L] | CRITICAL | EEEE:F26L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F26M] | CRITICAL | EEEE:F26M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F2WQ] | CRITICAL | EEEE:F2WQ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F2WR] | CRITICAL | EEEE:F2WR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F2WT] | CRITICAL | EEEE:F2WT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F2WV] | CRITICAL | EEEE:F2WV | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F336] | CRITICAL | EEEE:F336 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F337] | CRITICAL | EEEE:F337 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F338] | CRITICAL | EEEE:F338 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F339] | CRITICAL | EEEE:F339 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F33C] | CRITICAL | EEEE:F33C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F33D] | CRITICAL | EEEE:F33D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F33F] | CRITICAL | EEEE:F33F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F33G] | CRITICAL | EEEE:F33G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F33H] | CRITICAL | EEEE:F33H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F33J] | CRITICAL | EEEE:F33J | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F33K] | CRITICAL | EEEE:F33K | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F33L] | CRITICAL | EEEE:F33L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F33M] | CRITICAL | EEEE:F33M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F33N] | CRITICAL | EEEE:F33N | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F33P] | CRITICAL | EEEE:F33P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 826-4393 | 1 | LBL,P/N LABEL,PCB,28MM X 6 MM | [EEEE:F33Q] | CRITICAL | EEEE:F33Q | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 128S0364 | 128S0264 | | ALL | Kemet alt to Sanyo | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 128S0303 | 128S0353 | | ALL | Panasonic alt to Sanyo | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 376S0953 | 376S0958 | | ALL | RENESAS ALT TO FAIRCHILD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 128S0311 | 128S0329 | | ALL | NEC ALT TO SANYO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 353S3237 | 353S2192 | | ALL | TI ALT TO INTERSIL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 376S0977 | 376S0859 | | ALL | Diodes alt to Toshiba | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 138S0722 | 138S0691 | | ALL | Multi alt to Samsung | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 197S0487 | 197S0485 | | ALL | Spcon alt to TXC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 197S0484 | 197S0485 | | ALL | NEC alt to TXC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 197S0479 | 197S0486 | | ALL | Spcon alt to TXC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 197S0478 | 197S0486 | | ALL | NEC alt to TXC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 197S0481 | 197S0480 | | ALL | Spcon alt to NEC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 376S0972 | 376S0612 | | ALL | ROM alt to Toshiba | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 376S1053 | 376S0604 | | ALL | Diodes alt to Fairchild | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 376S1017 | 376S0612 | | ALL | ROM alt to Toshiba | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 138S0624 | 138S0677 | | ALL | Murata alt to Taiyo Yuden | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 138S0681 | 138S0638 | | ALL | Taiyo Yuden alt to Samsung | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 152S1703 | 152S1701 | | ALL | Susida alt to Cytac | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 371S0730 | 371S0740 | | ALL | Diodes alt to NXP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 138S0725 | 138S0724 | | ALL | Samsung alt to Murata | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 138S0727 | 138S0709 | | ALL | Samsung alt to Murata | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 376S1080 | 376S0820 | | ALL | Diodes alt to OM Semi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 372S0186 | 372S0185 | | ALL | NXP alt to Diodes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 128S0363 | 128S0296 | | ALL | NEC alt to Sanyo | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 376S0903 | 376S0796 | | ALL | Fairchild alt to Siliconix | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 740S0144 | 740S0118 | | ALL | Littlefuse alt to Polytronic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 152S1539 | 152S1598 | | ALL | Cytac alt to Toko | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 152S1645 | 152S0461 | | ALL | Cytac alt to Vishay | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 155S0667 | 155S0583 | | ALL | ROD LATES ALT TO MURATA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 103S0305 | 103S0266 | | ALL | Yageo alt to Cytac | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 112S0274 | 112S0254 | | ALL | Yageo alt to Cytac | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 376S1113 | 376S1110 | | ALL | Diodes to AOE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 155S0588 | 155S0367 | | ALL | MURATA ALT TO MURATA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Module Parts | | | Module Parts | | | Module Parts | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table><tr><th>PART NUMBER</th><th>QTY</th><th>DESCRIPTION</th><th>REFERENCE DES</th><th>CRITICAL</th><th>BOM OPTION</th></tr><tr><td>33784181</td><td>1</td><td>IVB_QM9P_R32_R32_2.3.35W_2+2.1.0.3M_M0A</td><td>U1000</td><td>CRITICAL</td><td>CPU_IVB_2C_2.3G_R32</td></tr><tr><td>33784182</td><td>1</td><td>IVB_QM9P_R32_R32_2.4.35W_2+2.1.0.4M_M0A</td><td>U1000</td><td>CRITICAL</td><td>CPU_IVB_2C_2.4G_R32</td></tr><tr><td>33784292</td><td>1</td><td>IVB_QM74_QM_L1_2.4.35W_2+2.1.0.3M_M0A</td><td>U1000</td><td>CRITICAL</td><td>CPU_IVB_2C_2.4G_Q8</td></tr><tr><td>33784300</td><td>1</td><td>IVB_QM74_QM_L1_2.4.35W_2+2.1.0.3M_M0A</td><td>U1000</td><td>CRITICAL</td><td>CPU_IVB_2C_2.4G_Q8</td></tr><tr><td>33784302</td><td>1</td><td>IVB_QM74_QM_L1_2.4.35W_2+2.1.0.3M_M0A</td><td>U1000</td><td>CRITICAL</td><td>CPU_IVB_2C_2.4G_Q8</td></tr><tr><td>33784294</td><td>1</td><td>IVB_QM74_QM_L1_2.4.35W_2+2.1.0.4M_M0A</td><td>U1000</td><td>CRITICAL</td><td>CPU_IVB_2C_2.4G_Q8</td></tr><tr><td>33784264</td><td>1</td><td>IVB_8_R0M0_P9Q_L1_2.4.35W_2+2.1.0.3M_M0A</td><td>U1000</td><td>CRITICAL</td><td>CPU_IVB_2C_2.3G</td></tr><tr><td>33784338</td><td>1</td><td>IVB_8_R0M0_P9Q_L1_2.4.35W_2+2.1.0.3M_M0A</td><td>U1000</td><td>CRITICAL</td><td>CPU_IVB_2C_2.4G</td></tr><tr><td>33784339</td><td>1</td><td>IVB_8_R0M0_P9Q_L1_2.4.35W_2+2.1.0.3M_M0A</td><td>U1000</td><td>CRITICAL</td><td>CPU_IVB_2C_2.4G</td></tr><tr><td>33784265</td><td>1</td><td>IVB_8_R0M0_P9Q_L1_2.4.35W_2+2.1.0.4M_M0A</td><td>U1000</td><td>CRITICAL</td><td>CPU_IVB_2C_2.3G</td></tr><tr><td>33784180</td><td>1</td><td>IC_PCH_PPT-HB_SFF_R32_R32</td><td>U1800</td><td>CRITICAL</td><td>PCH_R32</td></tr><tr><td>33784235</td><td>1</td><td>IC_PCH_PPT-HB_SFF_P-Q8_Q8</td><td>U1800</td><td>CRITICAL</td><td>PCH_Q8</td></tr><tr><td>33784283</td><td>1</td><td>IC_PCH_PPT-HB_SFF_P9Q_C1</td><td>U1800</td><td>CRITICAL</td><td>PCH_C1</td></tr><tr><td>33801113</td><td>1</td><td>IC_FMP_C04_R01_R01_P9Q_288P00A_130120A</td><td>U3600</td><td>CRITICAL</td><td>FMP_R01</td></tr><tr><td>33380623</td><td>16</td><td>IC_DDRAM_20B7_254M02_10B3-1400_78P90A</td><td>U1000</td><td>CRITICAL</td><td>2G_SAMSUNG_35NM_1600_S</td></tr><tr><td>33380622</td><td>16</td><td>IC_DDRAM_20B7_254M02_10B3-1400_78P90A</td><td>U1000</td><td>CRITICAL</td><td>2G_HYNIX_1600_S</td></tr><tr><td>33380628</td><td>16</td><td>IC_DDRAM_20B3-1400_254M02_78P90A_0-01X_RLPIDA</td><td>U1000</td><td>CRITICAL</td><td>2G_RLPIDA_1600_S</td></tr><tr><td>33380649</td><td>16</td><td>IC_DDRAM_20B3-1400_254M02_78P90A_MICRON</td><td>U1000</td><td>CRITICAL</td><td>2G_MICRON_1600_S</td></tr><tr><td>33380625</td><td>16</td><td>IC_DDRAM_20B3-1400_254M02_78P90A_HYNIX</td><td>U1000</td><td>CRITICAL</td><td>4G_HYNIX_1600_S</td></tr><tr><td>33380629</td><td>16</td><td>IC_DDRAM_20B3-1400_254M02_78P90A_0-01X_RLPIDA</td><td>U1000</td><td>CRITICAL</td><td>4G_RLPIDA_1600_S</td></tr><tr><td>33380624</td><td>16</td><td>IC_DDRAM_20B3-1400_254M02_78P90A_015_SAM0280</td><td>U1000</td><td>CRITICAL</td><td>4G_SAMSUNG_35NM_1600_S</td></tr><tr><td>33380623</td><td>8</td><td>IC_DDRAM_20B7_254M02_10B3-1400_78P90A</td><td>U1000</td><td>CRITICAL</td><td>6G_SAMSUNG_28NM_CHO_1600_S</td></tr><tr><td>33380624</td><td>8</td><td>IC_DDRAM_20B3-1400_254M02_78P90A_0-01X_RLPIDA</td><td>U1000</</td></tr></table> | PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION | 33784181 | 1 | IVB_QM9P_R32_R32_2.3.35W_2+2.1.0.3M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.3G_R32 | 33784182 | 1 | IVB_QM9P_R32_R32_2.4.35W_2+2.1.0.4M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.4G_R32 | 33784292 | 1 | IVB_QM74_QM_L1_2.4.35W_2+2.1.0.3M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.4G_Q8 | 33784300 | 1 | IVB_QM74_QM_L1_2.4.35W_2+2.1.0.3M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.4G_Q8 | 33784302 | 1 | IVB_QM74_QM_L1_2.4.35W_2+2.1.0.3M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.4G_Q8 | 33784294 | 1 | IVB_QM74_QM_L1_2.4.35W_2+2.1.0.4M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.4G_Q8 | 33784264 | 1 | IVB_8_R0M0_P9Q_L1_2.4.35W_2+2.1.0.3M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.3G | 33784338 | 1 | IVB_8_R0M0_P9Q_L1_2.4.35W_2+2.1.0.3M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.4G | 33784339 | 1 | IVB_8_R0M0_P9Q_L1_2.4.35W_2+2.1.0.3M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.4G | 33784265 | 1 | IVB_8_R0M0_P9Q_L1_2.4.35W_2+2.1.0.4M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.3G | 33784180 | 1 | IC_PCH_PPT-HB_SFF_R32_R32 | U1800 | CRITICAL | PCH_R32 | 33784235 | 1 | IC_PCH_PPT-HB_SFF_P-Q8_Q8 | U1800 | CRITICAL | PCH_Q8 | 33784283 | 1 | IC_PCH_PPT-HB_SFF_P9Q_C1 | U1800 | CRITICAL | PCH_C1 | 33801113 | 1 | IC_FMP_C04_R01_R01_P9Q_288P00A_130120A | U3600 | CRITICAL | FMP_R01 | 33380623 | 16 | IC_DDRAM_20B7_254M02_10B3-1400_78P90A | U1000 | CRITICAL | 2G_SAMSUNG_35NM_1600_S | 33380622 | 16 | IC_DDRAM_20B7_254M02_10B3-1400_78P90A | U1000 | CRITICAL | 2G_HYNIX_1600_S | 33380628 | 16 | IC_DDRAM_20B3-1400_254M02_78P90A_0-01X_RLPIDA | U1000 | CRITICAL | 2G_RLPIDA_1600_S | 33380649 | 16 | IC_DDRAM_20B3-1400_254M02_78P90A_MICRON | U1000 | CRITICAL | 2G_MICRON_1600_S | 33380625 | 16 | IC_DDRAM_20B3-1400_254M02_78P90A_HYNIX | U1000 | CRITICAL | 4G_HYNIX_1600_S | 33380629 | 16 | IC_DDRAM_20B3-1400_254M02_78P90A_0-01X_RLPIDA | U1000 | CRITICAL | 4G_RLPIDA_1600_S | 33380624 | 16 | IC_DDRAM_20B3-1400_254M02_78P90A_015_SAM0280 | U1000 | CRITICAL | 4G_SAMSUNG_35NM_1600_S | 33380623 | 8 | IC_DDRAM_20B7_254M02_10B3-1400_78P90A | U1000 | CRITICAL | 6G_SAMSUNG_28NM_CHO_1600_S | 33380624 | 8 | IC_DDRAM_20B3-1400_254M02_78P90A_0-01X_RLPIDA | U1000</ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 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| PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33784181 | 1 | IVB_QM9P_R32_R32_2.3.35W_2+2.1.0.3M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.3G_R32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 33784264 | 1 | IVB_8_R0M0_P9Q_L1_2.4.35W_2+2.1.0.3M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.3G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 33784339 | 1 | IVB_8_R0M0_P9Q_L1_2.4.35W_2+2.1.0.3M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.4G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33784265 | 1 | IVB_8_R0M0_P9Q_L1_2.4.35W_2+2.1.0.4M_M0A | U1000 | CRITICAL | CPU_IVB_2C_2.3G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33784180 | 1 | IC_PCH_PPT-HB_SFF_R32_R32 | U1800 | CRITICAL | PCH_R32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33784235 | 1 | IC_PCH_PPT-HB_SFF_P-Q8_Q8 | U1800 | CRITICAL | PCH_Q8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33784283 | 1 | IC_PCH_PPT-HB_SFF_P9Q_C1 | U1800 | CRITICAL | PCH_C1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33801113 | 1 | IC_FMP_C04_R01_R01_P9Q_288P00A_130120A | U3600 | CRITICAL | FMP_R01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33380623 | 16 | IC_DDRAM_20B7_254M02_10B3-1400_78P90A | U1000 | CRITICAL | 2G_SAMSUNG_35NM_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33380622 | 16 | IC_DDRAM_20B7_254M02_10B3-1400_78P90A | U1000 | CRITICAL | 2G_HYNIX_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33380628 | 16 | IC_DDRAM_20B3-1400_254M02_78P90A_0-01X_RLPIDA | U1000 | CRITICAL | 2G_RLPIDA_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33380649 | 16 | IC_DDRAM_20B3-1400_254M02_78P90A_MICRON | U1000 | CRITICAL | 2G_MICRON_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33380625 | 16 | IC_DDRAM_20B3-1400_254M02_78P90A_HYNIX | U1000 | CRITICAL | 4G_HYNIX_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33380629 | 16 | IC_DDRAM_20B3-1400_254M02_78P90A_0-01X_RLPIDA | U1000 | CRITICAL | 4G_RLPIDA_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33380624 | 16 | IC_DDRAM_20B3-1400_254M02_78P90A_015_SAM0280 | U1000 | CRITICAL | 4G_SAMSUNG_35NM_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33380623 | 8 | IC_DDRAM_20B7_254M02_10B3-1400_78P90A | U1000 | CRITICAL | 6G_SAMSUNG_28NM_CHO_1600_S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33380624 | 8 | IC_DDRAM_20B3-1400_254M02_78P90A_0-01X_RLPIDA | U1000</ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| D | | | | | | | | |
| C | | | | | | | | |
| B | | | | | | | | |
| A | | | | | | | | |
| | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |

PD Module Parts

| PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION |
|-------------|-----|---------------------------------------|---------------|----------|------------|
| 860-1533 | 1 | STDOFF,BMU,TOPSIDE,D1,SM | J6950_63 | CRITICAL | |
| 860-1530 | 1 | STDOFF-1.9D2,93H-TW-0.85-1.2 | J6950_64 | CRITICAL | |
| 860-1529 | 1 | STDOFF-1.80D1.53H-SM | J6950_65 | CRITICAL | |
| 825-7841 | 1 | LBL,PART CONFIG,BOARDS,D2 | CONFIG_LABEL | CRITICAL | |
| 946-4350 | 1 | D1 MLB LOCTITE UV GLUE 190024/S 0.24G | EDGE_BOND | CRITICAL | |

DEVELOPMENT/BASE BOMs

| PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION |
|-------------|-----|------------------------|---------------|----------|------------|
| 085-4094 | 1 | D1 MLB DEVELOPMENT BOM | DEVEL | CRITICAL | DEVEL_BOM |
| 607-9189 | 1 | D1 MLB BASE BOM | BASE | CRITICAL | BASE_BOM |

SMC

| | | | | | |
|----------|---|---------------------------|-------|----------|----------------|
| 34183528 | 1 | IC,SMC12,PHOTO1,D1 | U4900 | CRITICAL | SMC_PROG:PHOTO |
| 34183404 | 1 | IC,SMC DEVELOPMENT-P1B,D1 | U4900 | CRITICAL | SMC_PROG:P1B |
| 34183405 | 1 | IC,SMC DEVELOPMENT-P1B,D1 | U4900 | CRITICAL | SMC_PROG:P1B |
| 34183406 | 1 | IC,SMC DEVELOPMENT-P1B,D1 | U4900 | CRITICAL | SMC_PROG:P1B |

EFI ROM

| | | | | | |
|----------|---|----------------------|-------|----------|--------------------|
| 34183571 | 1 | IC,EFI,ROM,PHOTO1,D1 | U6100 | CRITICAL | BOOTROM_PROG:PHOTO |
| 34183603 | 1 | IC,EFI,ROM,P1B,D1 | U6100 | CRITICAL | BOOTROM_PROG:P1B |
| 34183636 | 1 | IC,EFI,ROM,P1B2,D1 | U6100 | CRITICAL | BOOTROM_PROG:P1B2 |
| 34183650 | 1 | IC,EFI,ROM,P1B,D1 | U6100 | CRITICAL | BOOTROM_PROG:P1B |
| 3418XXXX | 1 | IC,EFI,ROM,P1B2,D1 | U6100 | CRITICAL | BOOTROM_PROG:P1B2 |
| 34183667 | 1 | IC,EFI,ROM,P1B,D1 | U6100 | CRITICAL | BOOTROM_PROG:P1B |


Programmables - All builds

| | | | | | |
|----------|---|---|-------|----------|-----------------|
| 33580809 | 1 | 64 MBIT SPI SERIAL SERIAL 2/IO FLASH,Memory | U6100 | CRITICAL | BOOTROM:BLANK |
| 33580803 | 1 | 64 MBIT SPI SERIAL SERIAL 2/IO FLASH,Memory | U6100 | CRITICAL | BOOTROM:BLANK |
| 34183670 | 1 | IC,T9_PROC,V224,P1B,D1 | U5701 | CRITICAL | TPAD_PROC:PROG |
| 33782983 | 1 | IC,T9_PROC,QFN,BLANK | U5701 | CRITICAL | TPAD_PROC:BLANK |
| 34183668 | 1 | IC,TESTRON,ON,V14.1,D1,P1B | U3690 | CRITICAL | TESTRON:PROG |
| 33580865 | 1 | IC,TESTRON,SERIAL,ROM,80102 | U3690 | CRITICAL | TESTRON:BLANK |
| 33881098 | 1 | IC,SMC12-A3,LAN91A868C10K3 | U4900 | CRITICAL | SMC:BLANK |
| 998-3919 | 1 | SOCKET, SMC12 | J4900 | CRITICAL | SMC_SOCKET |

SYNC MASTER=MASTER

SYNC DATE=MASTER

BOM Configuration

 Apple Inc.

DRAWING NUMBER

<SCH_NUM>

REVISION

<E4LABEL>

BRANCH

<BRANCH>

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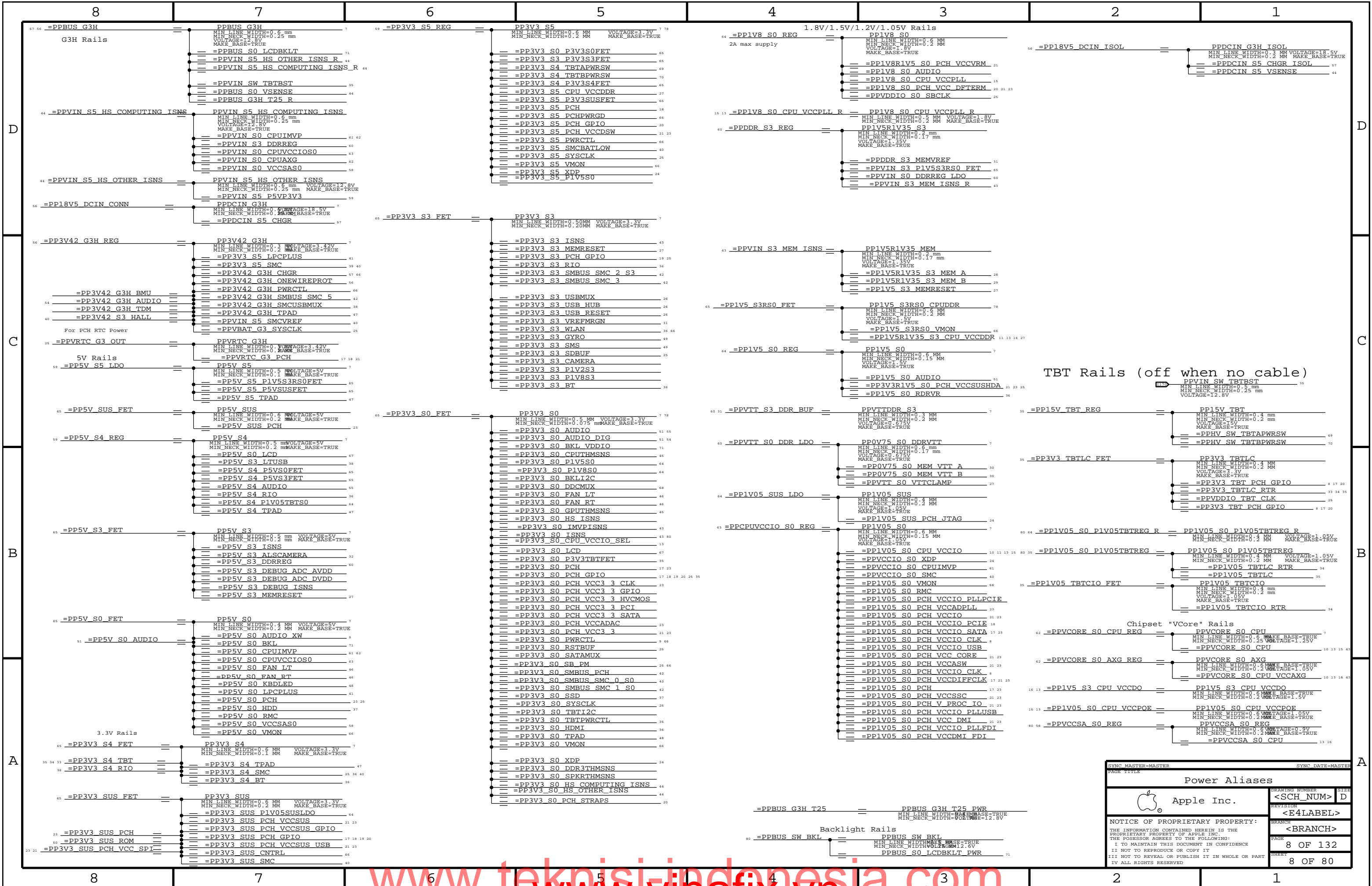
PAGE

6 OF 132

SHEET

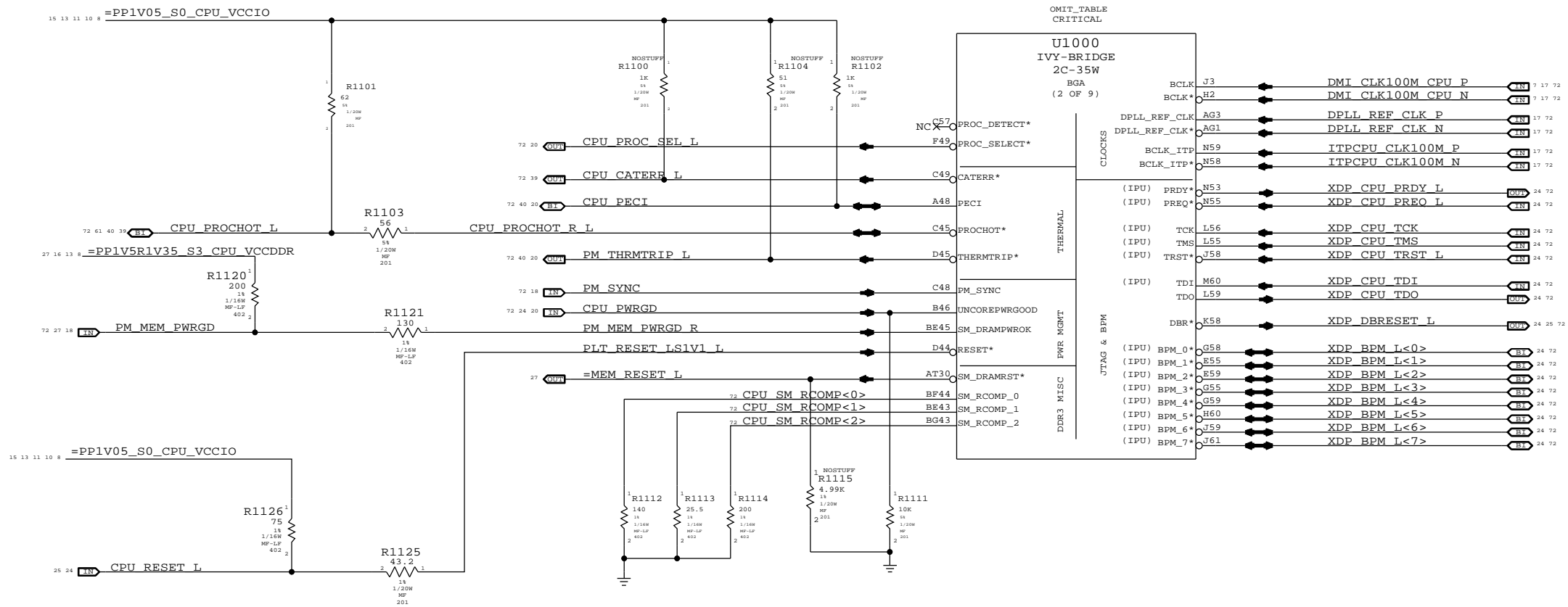
6 OF 80

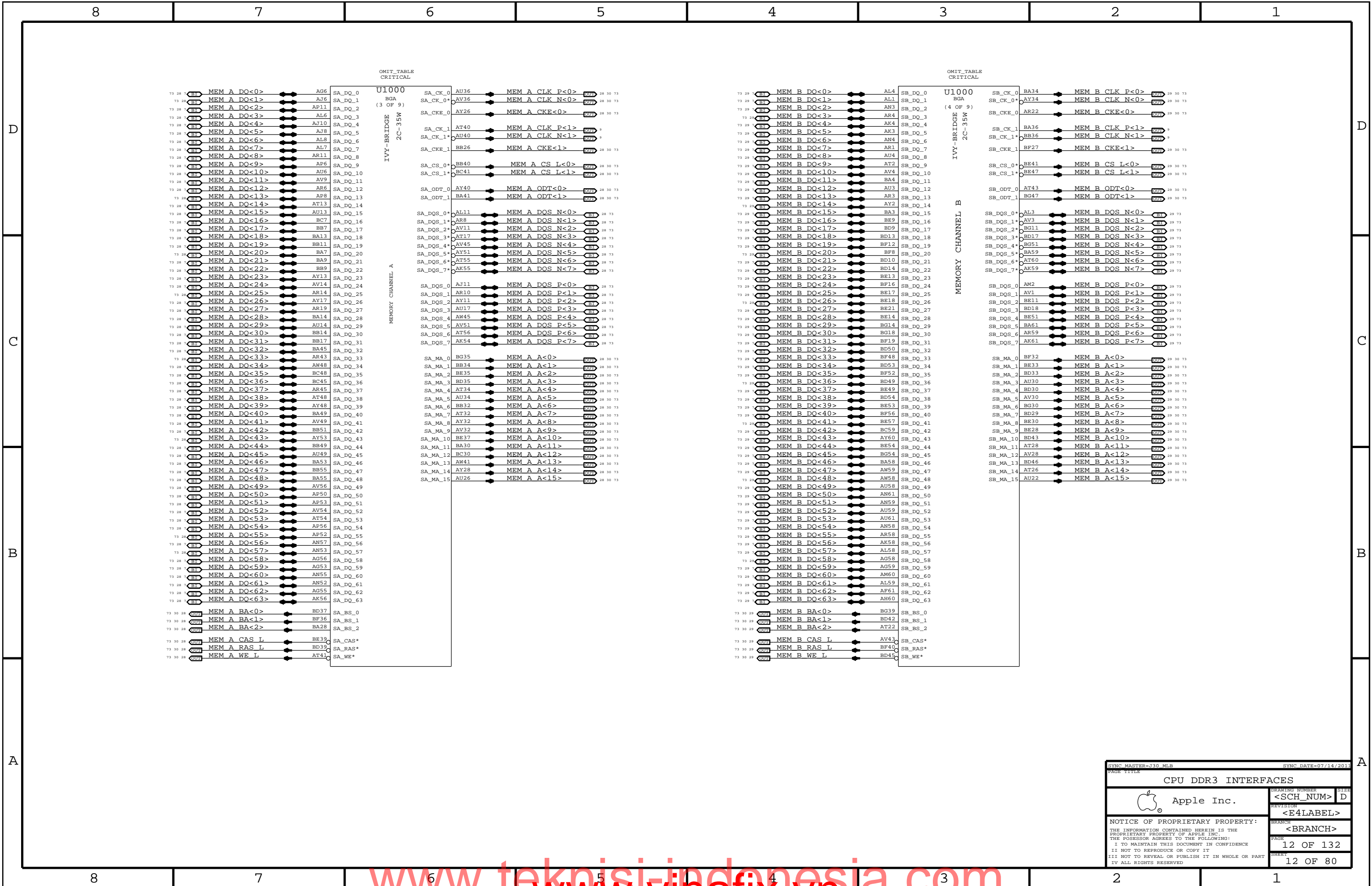
| | | | | | | | | | | | | | | | |
|--|---|---|---|--|---|---|---|--|--|--|--|--|--|--|--|
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | | | | | | | | |
| Functional Test Points | | | | ICT Test Points | | | | | | | | | | | |
| <div>J5650 (LEFT FAN CONN)</div> <div>FUNC_TEST PP5V_S0 3 TPs per Fan</div> <div>FAN LT PWM 46</div> <div>FAN LT TACH 46</div> <div>J5660 (RIGHT FAN CONN)</div> <div>FAN RT PWM 46</div> <div>FAN RT TACH 46</div> <div>GND 5 TPs per Fan</div> <div>J3502 (ALS/CAMERA CONN)</div> <div>SMBUS_SMC_2_S3_SDA 7 39 42 77</div> <div>SMBUS_SMC_2_S3_SCL 7 39 42 77</div> <div>PP5V_S3_ALSCAMERA_F 7 32</div> <div>J4400 (RIO CABLE CONN)</div> <div>PP3V3_S4 7 8</div> <div>PP3V3_S3 8 78</div> <div>PP3V3_WLAN_F 7 36 40 80</div> <div>PP5V_S4 8</div> <div>PP1V5_S0 8</div> <div>J4410 (RIO FLEX CONN)</div> <div>USB_EXTB_OC_L 24 36</div> <div>HDMI_IG_DDC_CLK 9 36</div> <div>HDMI_IG_DDC_DATA 9 36</div> <div>HDMI_HPD_L 36 40</div> <div>PM_SLP_S3_L 7 18 27 36 39 66</div> <div>PM_SLP_S4_L 18 27 36 39 66</div> <div>AP_CLKREQ_O_L 7 36</div> <div>ENET_RESET_L 26</div> <div>ENET_CLKREQ_L 17 36</div> <div>SD_PWR_EN 9 36</div> <div>SDCONN_STATE_CHANGE_SMC 25 40</div> <div>PCIE_WAKE_L 7 18 36</div> <div>AP_CLKREQ_O_L 7 36</div> <div>AP_RESET_CONN_L 7 36</div> <div>WIFI_EVENT_L 36 39 40</div> <div>USB_EXTB_P 26 36 74</div> <div>USB_EXTB_N 26 36 74</div> <div>USB_BT_CONN_P 9 36 74</div> <div>USB_BT_CONN_N 9 36 74</div> <div>AP_RESET_CONN_L 7 36</div> <div>SMBUS_PCH_CLK 17 42 75</div> <div>SMBUS_PCH_DATA 17 42 75</div> <div>SMBUS_SMC_1_S0_SCL 39 42 77</div> <div>SMBUS_SMC_1_S0_SDA 39 42 77</div> <div>J5815 (KBD BACKLIGHT CONN)</div> <div>PP_KBD_BOOST_VOUT 48</div> <div>KBDLED_CATHODE1 48</div> <div>KBDLED_CATHODE2 48</div> <div>SMC_KBDLED_PRESENT_L 48</div> <div>J6950 (MAIN BATT CONN)</div> <div>PPVBAT_G3H_CONN 56 57</div> <div>SMBUS_SMC_5_G3_SCL 39 42</div> <div>SMBUS_SMC_5_G3_SDA 39 42</div> <div>SYS_DETECT_L_R</div> <div>SYSDET1 56</div> <div>SYSDET_3_4 56</div> <div>J6801 (2 MIC CONN)</div> <div>CON_DMIC_PWR 55</div> <div>CON_DMIC_SDA1 55</div> <div>CON_DMIC_CLK 55</div> <div>J3401 & J3402 (AIRPORT/BT/CAMERA CONN)</div> <div>PCIE_CLK100M_AP_CONN_P 36 78</div> <div>PCIE_CLK100M_AP_CONN_N 36 78</div> <div>AP_CLKREQ_O_L 7 36</div> <div>PCIE_WAKE_L 7 18 36</div> <div>AP_RESET_CONN_L 7 36</div> <div>PP3V3_WLAN_F 7 36 40 80</div> <div>PP5V_S3_ALSCAMERA_F 7 32</div> <div>SMBUS_SMC_2_S3_SDA 7 39 42 77</div> <div>SMBUS_SMC_2_S3_SCL 7 39 42 77</div> <div>USB_CAMERA_CONN_P 32 74</div> <div>USB_CAMERA_CONN_N 32 74</div> <div>J4600 (LEFT USB CONN)</div> <div>PP5V_S3_LTUSB_A_F 38</div> <div>USB_LTI1_N 38 74</div> <div>USB_LTI1_P 38 74</div> <div>FUNC_TEST GND 6 TPs</div> | | | | <div>J5713 (KEY BOARD CONN)</div> <div>PP3V3_S4 7 8</div> <div>PP3V42_G3H 7 8</div> <div>WS_KBD1 47</div> <div>WS_KBD2 47</div> <div>WS_KBD3 47</div> <div>WS_KBD4 47</div> <div>WS_KBD5 47</div> <div>WS_KBD6 47</div> <div>WS_KBD7 47</div> <div>WS_KBD8 47</div> <div>WS_KBD9 47</div> <div>WS_KBD10 47</div> <div>WS_KBD11 47</div> <div>WS_KBD12 47</div> <div>WS_KBD13 47</div> <div>WS_KBD14 47</div> <div>WS_KBD15_CAP 47</div> <div>WS_KBD16_NUM 47</div> <div>WS_KBD17 47</div> <div>WS_KBD18 47</div> <div>WS_KBD19 47</div> <div>WS_KBD20 47</div> <div>WS_KBD21 47</div> <div>WS_KBD22 47</div> <div>WS_KBD23 47</div> <div>WS_KBD_ONOFF_L 47</div> <div>WS_LEFT_SHIFT_KBD 47</div> <div>WS_LEFT_OPTION_KBD 47</div> <div>WS_CONTROL_KBD 47</div> <div>J5700 (1PD FLEX CONN)</div> <div>PP3V3_S4 7 8</div> <div>Z2_CS_L 47</div> <div>Z2_M0S1 47</div> <div>Z2_MISO 47</div> <div>Z2_SCL 47</div> <div>Z2_HOST_INTN 47</div> <div>PP5V_S4_CUMULUS 47</div> <div>Z2_CLKIN 47</div> <div>SMBUS_SMC_2_S3_SCL 7 39 42 77</div> <div>SMBUS_SMC_2_S3_SDA 7 39 42 77</div> <div>PSOC_SCL 47</div> <div>PSOC_M0S1 47</div> <div>PSOC_MISO 47</div> <div>PICKB_L 47</div> <div>PSOC_P_CS_L 47</div> <div>Z2_KEY_ACT_L 47</div> <div>J6900 (DC POWER CONN)</div> <div>TDM_ONEWIRE_MPM 46</div> <div>ADAPTER_SENSE 46</div> <div>PP18V5_PCIN_FUSE 46</div> <div>GND</div> <div>J4500 (SSD/HDD FLEX CONN)</div> <div>PP3V3_S0_SSD_FLT 47</div> <div>SMC_OOB1_TX_L 47 39 40</div> <div>SMC_OOB1_RX_L 47 39 40</div> <div>PP5V_S0_HDD_FLT 47</div> <div>GND</div> <div>FUNC_TEST BKLT_EN 71</div> <div>LCD_BKLT_PWM 9 71</div> <div>PM_CLKRUN_L 7 18 39 41</div> <div>PM_SYSRST_L 10 25 39</div> <div>SMC_ONOFF_L 39 40 47</div> <div>J5100 (LPC + SPI CONN)</div> <div>PP3V42_G3H 7 8</div> <div>PP5V_S0 7 8</div> <div>LPC_CLK33M_LPCPLUS 25 41 75</div> <div>LPC_AD<0> 7 17 39 41 75</div> <div>LPC_AD<2> 7 17 39 41 75</div> <div>LPC_AD<1> 7 17 39 41 75</div> <div>LPC_AD<3> 7 17 39 41 75</div> <div>SPI_ALT_M0S1 41</div> <div>LPCPLUS_GPIO 20 41</div> <div>LPCPLUS_RESET_L 25 41</div> <div>SMC_TDO 39 40 41</div> <div>TP_SMC_TRST_L 41</div> <div>TP_SMC_MD1 41</div> <div>SMC_TX_L 39 40 41</div> <div>SPI_ALT_MISO 39 40 41</div> <div>LPC_FRAME_L 7 17 39 41 75</div> <div>SPIROM_USE_MLB 20 41 50</div> <div>PM_CLKRUN_L 7 18 39 41</div> <div>SPI_ALT_CLK 41</div> <div>SPI_ALT_CS_L 41</div> <div>LPC_SERIRO 17 39 41</div> <div>LPC_PWRDOWN_L 18 25 39 41</div> <div>SMC_TDI 39 40 41</div> <div>SMC_TCK 39 40 41</div> <div>SMC_RESET_L 39 40 41</div> <div>SMC_ROMBOOT 39 40 41</div> <div>SMC_RX_L 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<div>TP_SMC_MPM5_LED_PWR 19</div> <div>TP_SMC_MPM5_LED_CHG 19</div> <div>TP_SMS_INT2 19</div> <div>PCIE_TBT_R2D_C_P<3..0> 33 76</div> <div>PCIE_TBT_R2D_C_N<3..0> 33 76</div> <div>PCIE_TBT_R2D_P<3..0> 33 76</div> <div>PCIE_TBT_R2D_N<3..0> 33 76</div> <div>PCIE_TBT_D2R_P<3..1> 33 76</div> <div>PCIE_TBT_D2R_C_P<3..1> 33 76</div> <div>PCIE_TBT_D2R_C_N<3..1> 33 76</div> <div>PCIE_TBT_D2R_N<3..1> 33 76</div> <div>MEM_A_DQ<0> 12 28 73</div> <div>MEM_A_DQ<12..2> 12 28 73</div> <div>MEM_A_DQ<19..14> 12 28 73</div> <div>MEM_A_DQ<24..21> 12 28 73</div> <div>MEM_A_DQ<32..26> 12 28 73</div> <div>MEM_A_DQ<42..34> 12 28 73</div> <div>MEM_A_DQ<54..44> 12 28 73</div> <div>MEM_A_DQ<56> 12 28 73</div> <div>MEM_B_DQ<2..0> 12 29 73</div> <div>MEM_B_DQ<13..4> 12 29 73</div> <div>MEM_B_DQ<19..15> 12 29 73</div> <div>MEM_B_DQ<25..21> 12 29 73</div> <div>MEM_B_DQ<35..27> 12 29 73</div> <div>MEM_B_DQ<40..37> 12 29 73</div> <div>MEM_B_DQ<47..42> 12 29 73</div> <div>MEM_B_DQ<57..49> 12 29 73</div> 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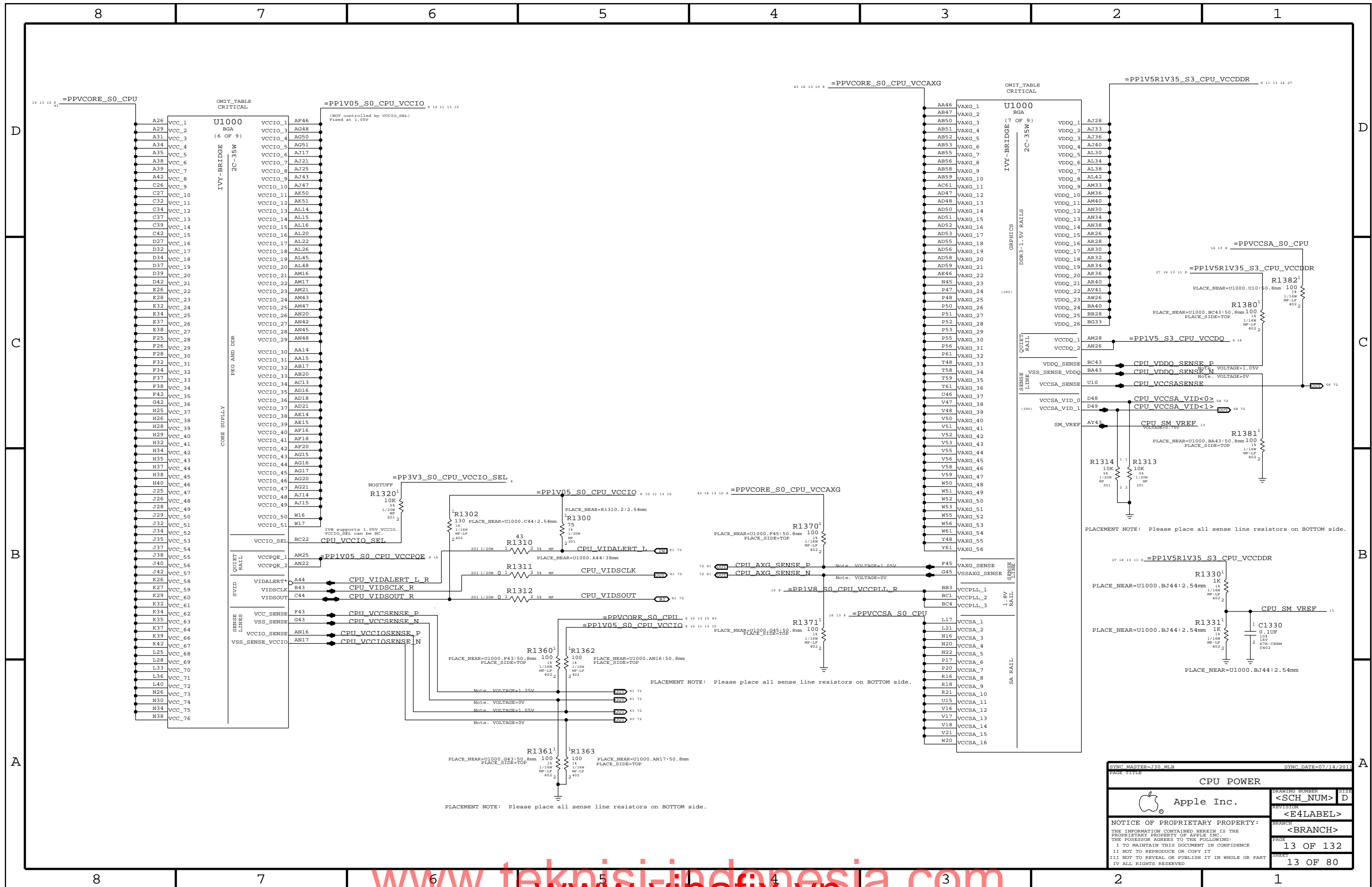
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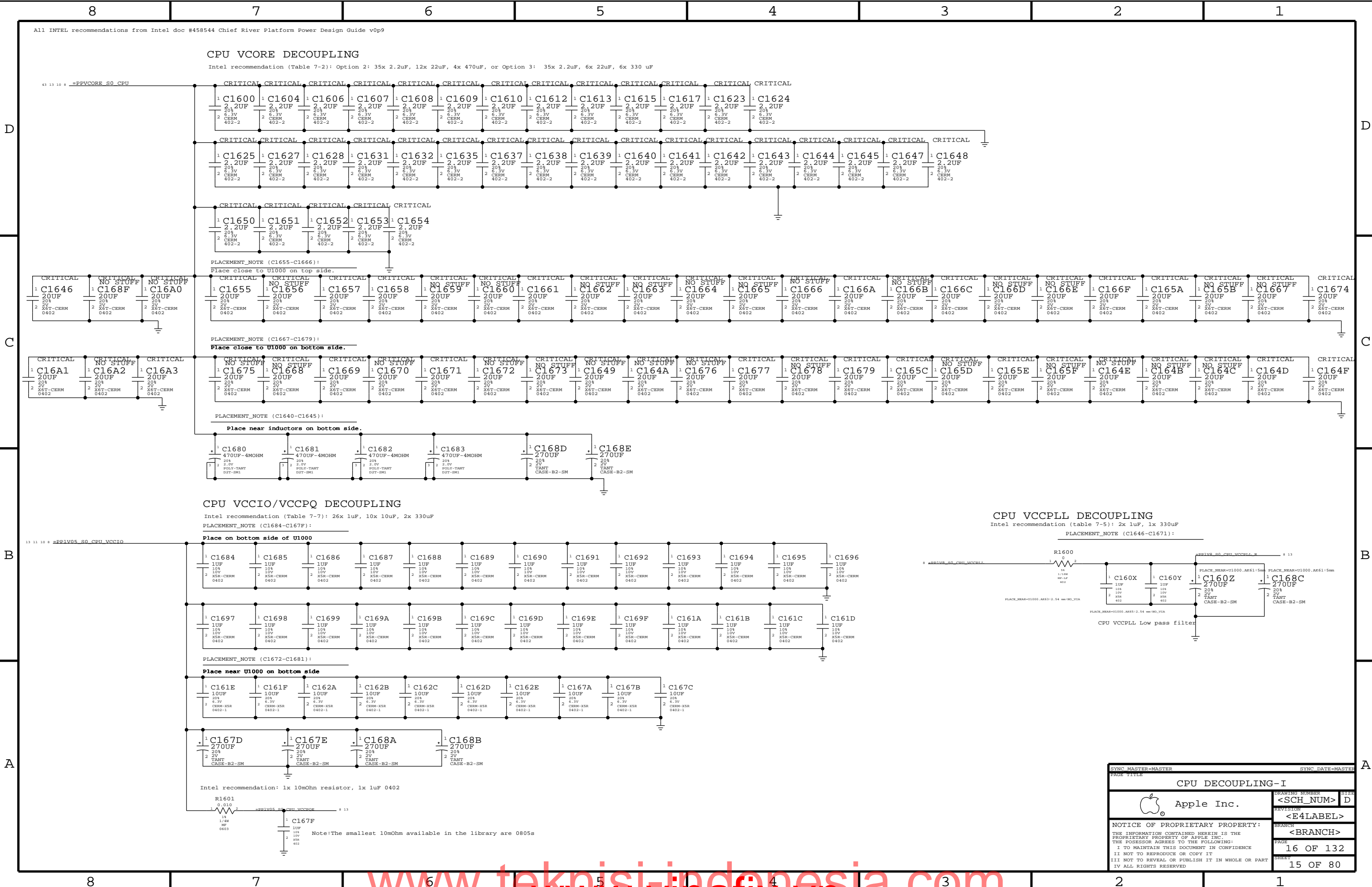


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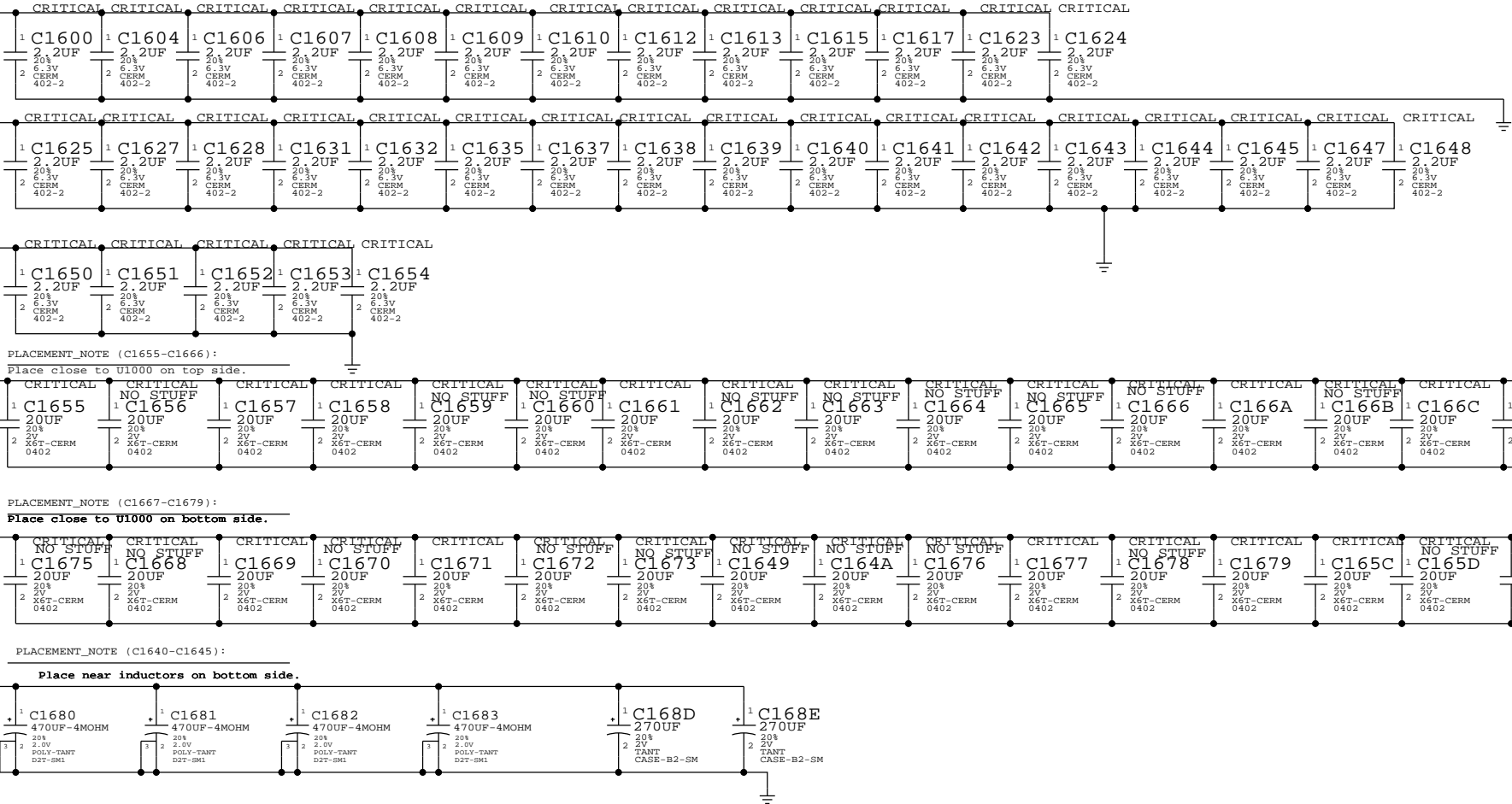
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CPU VCORE DECOUPLING

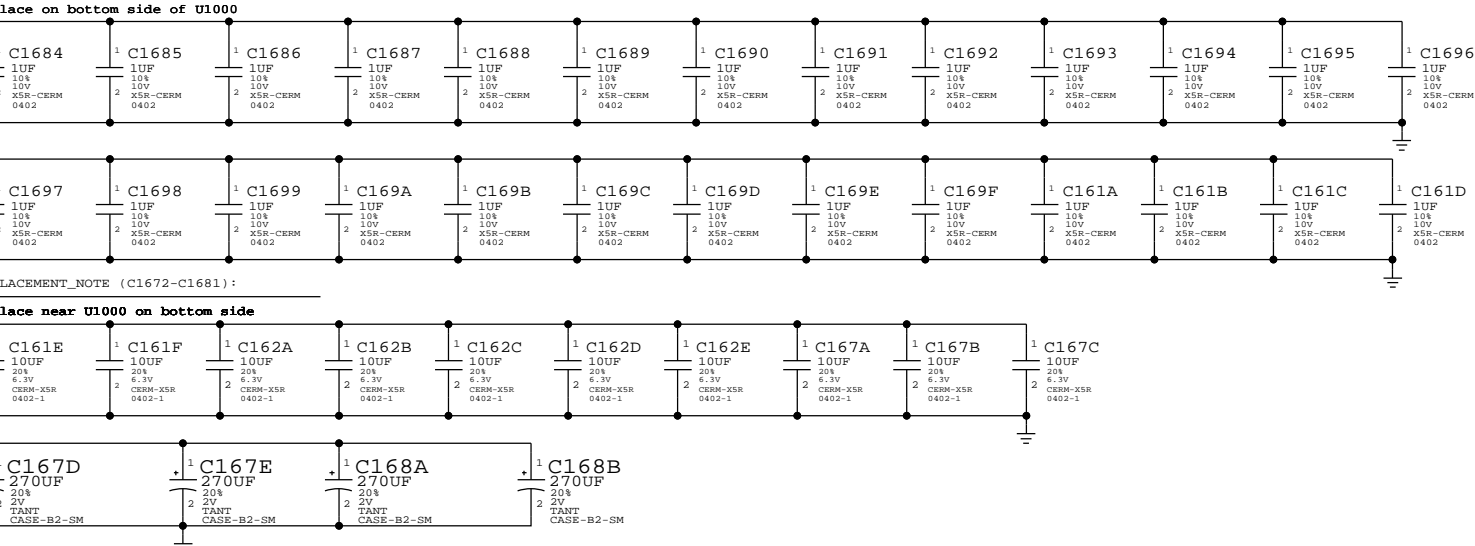
Intel recommendation (Table 7-2): Option 2: 35x 2.2uF, 12x 22uF, 4x 470uF, or Option 3: 35x 2.2uF, 6x 22uF, 6x 330 uF



CPU VCCIO/VCCPQ DECOUPLING

Intel recommendation (Table 7-7): 26x 1uF, 10x 10uF, 2x 330uF

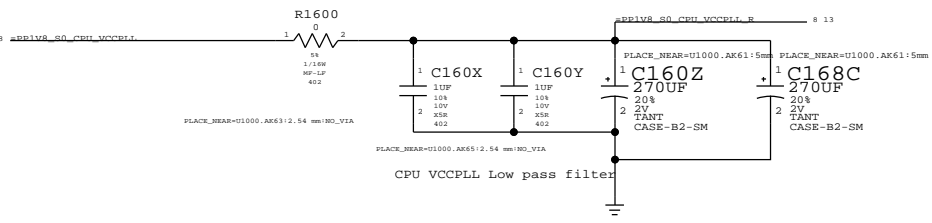
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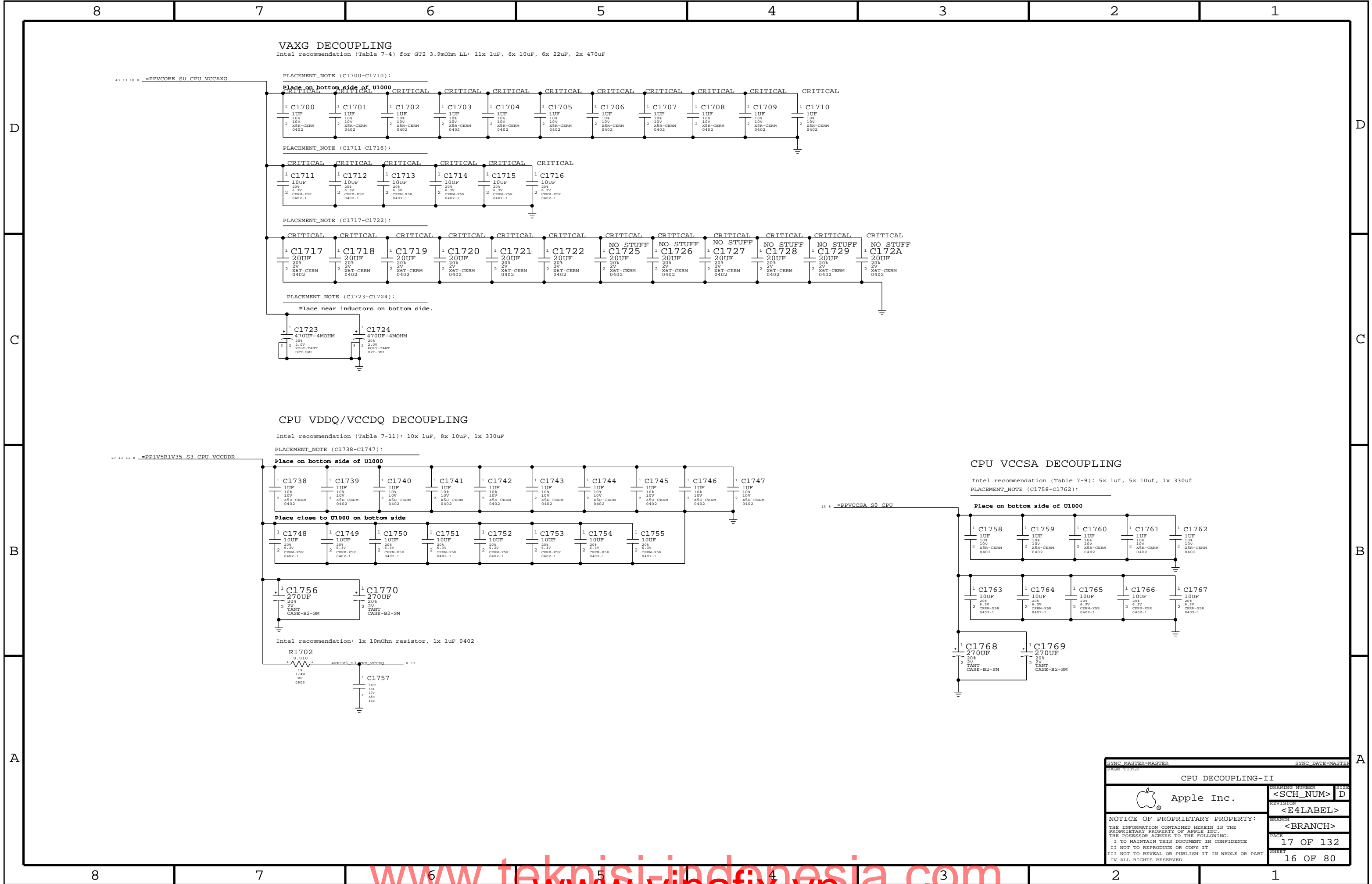
CPU VCCPLL DECOUPLING

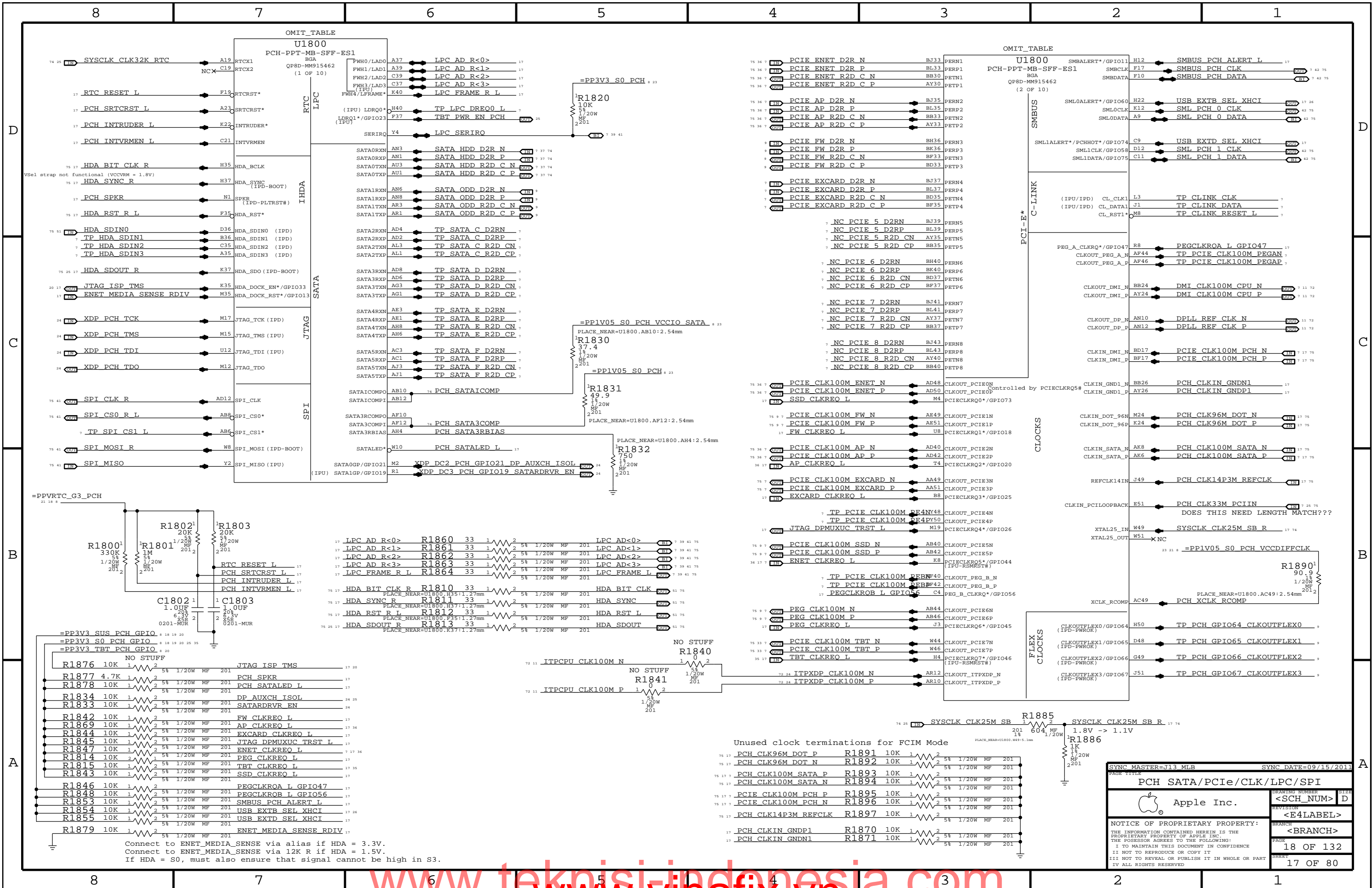
Intel recommendation (table 7-5): 2x 1uF, 1x 330uF

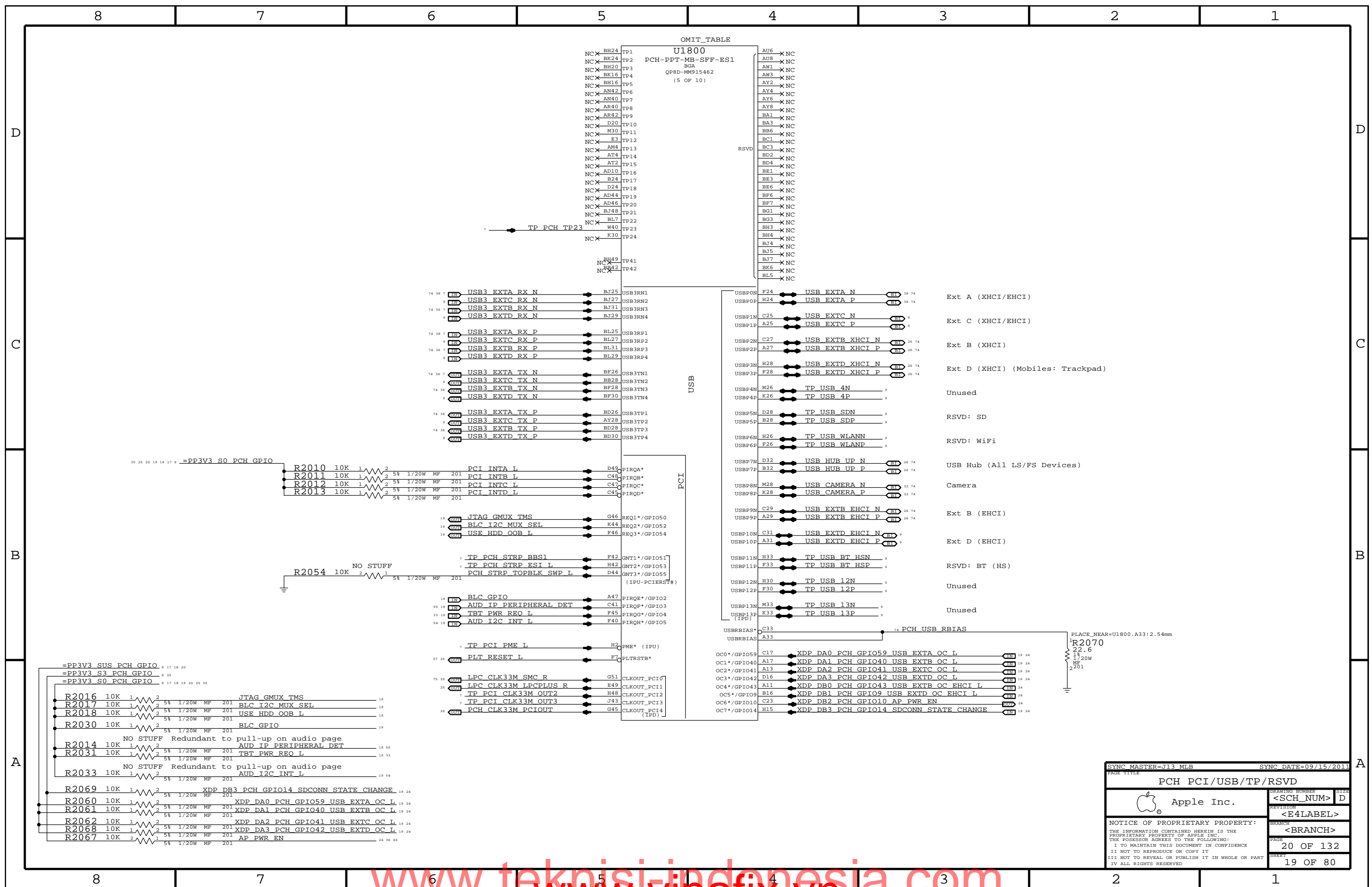
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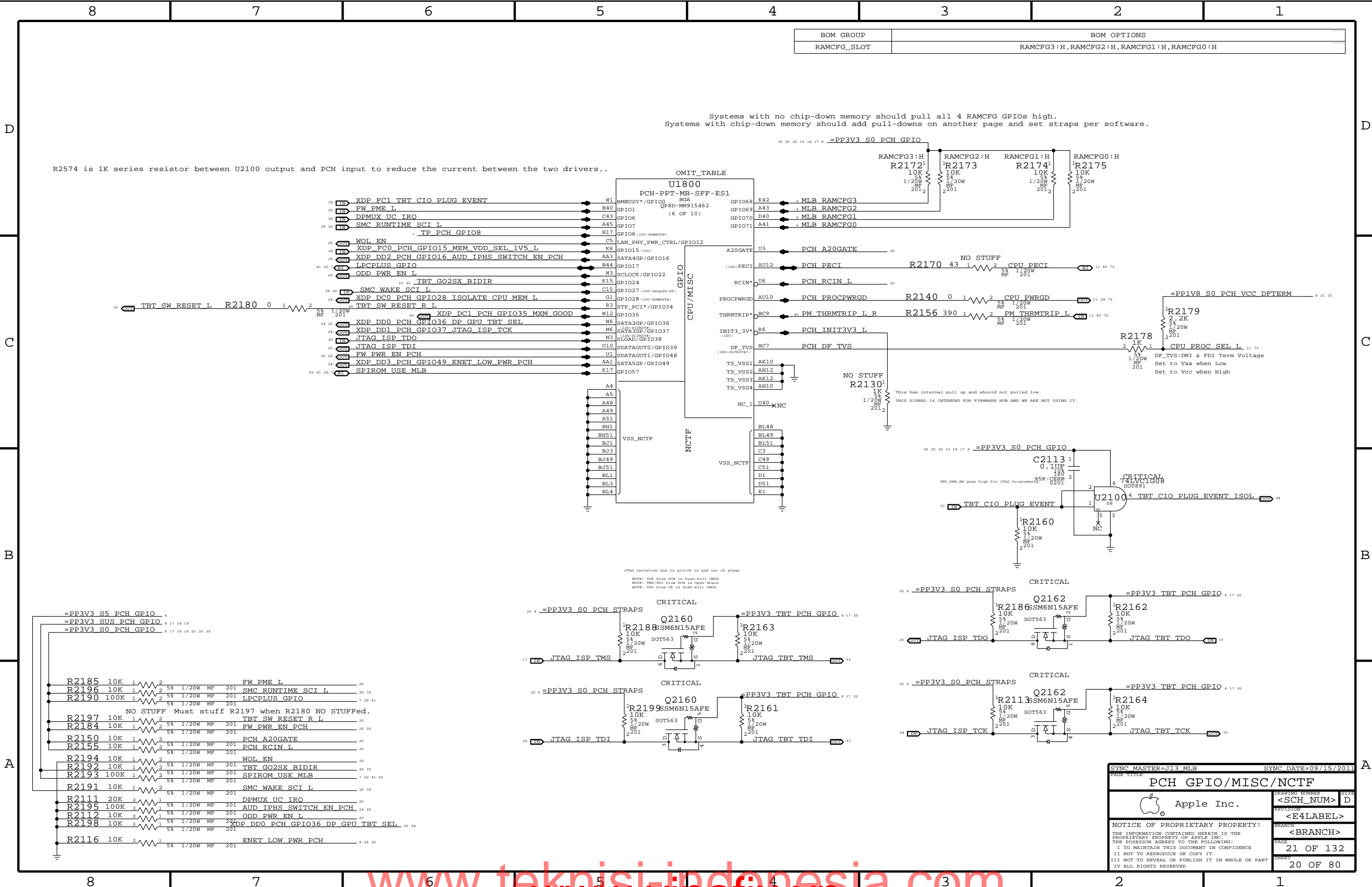


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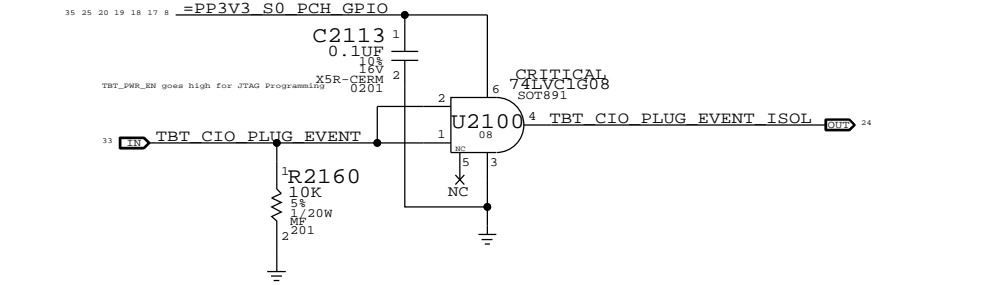
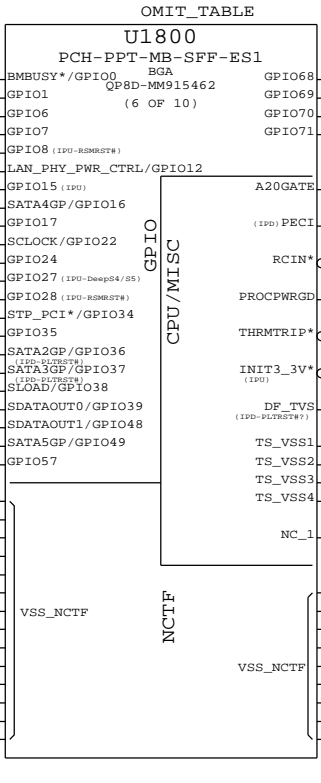


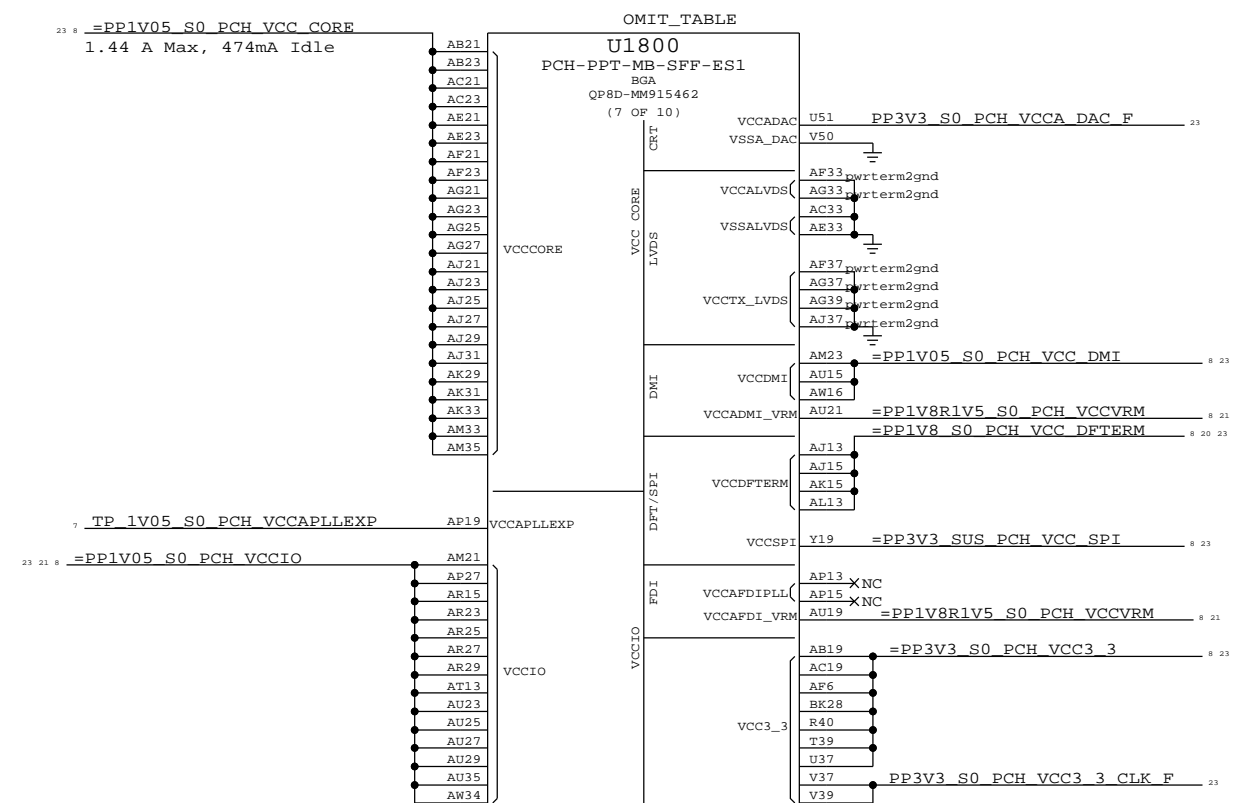
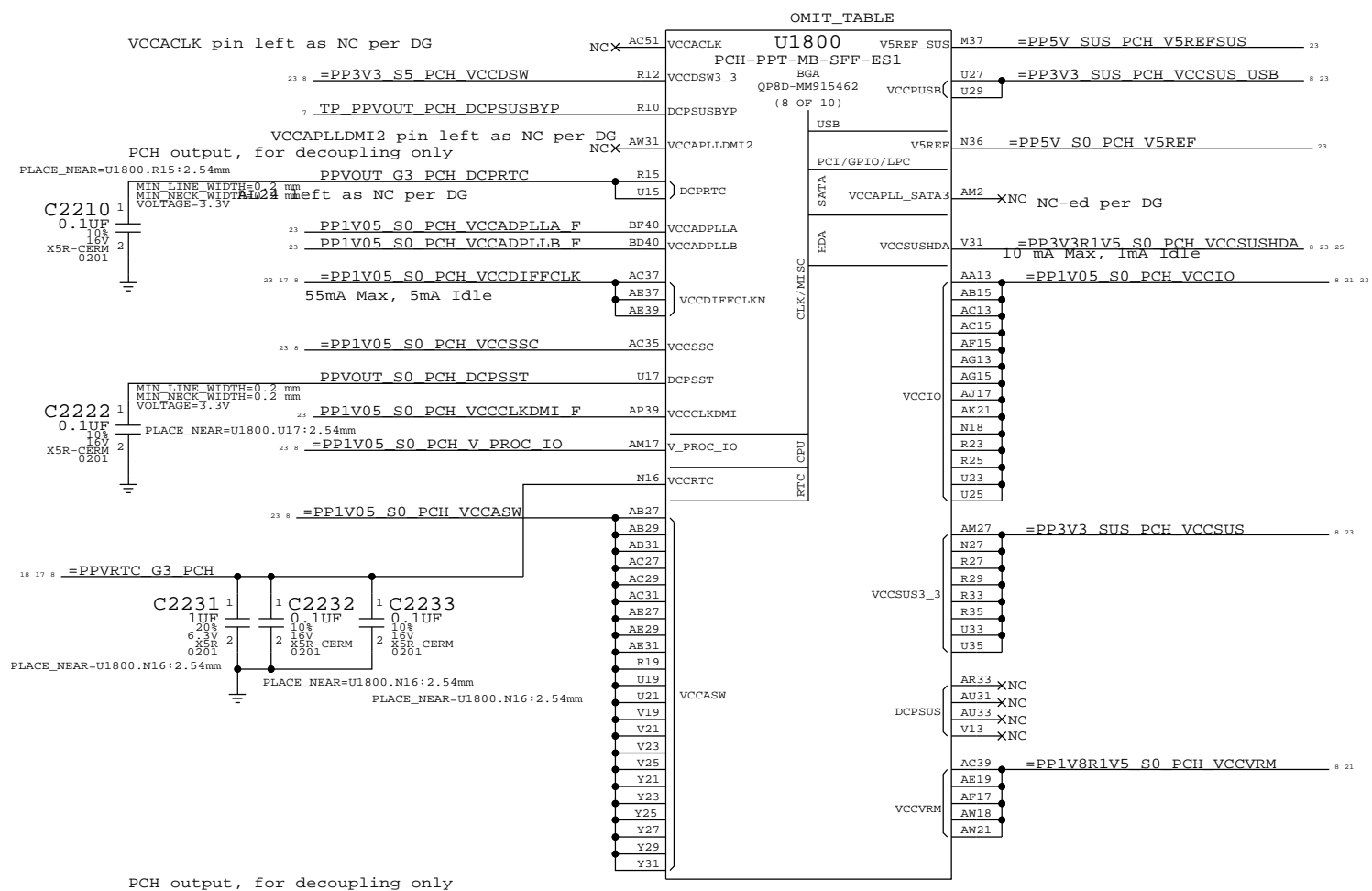


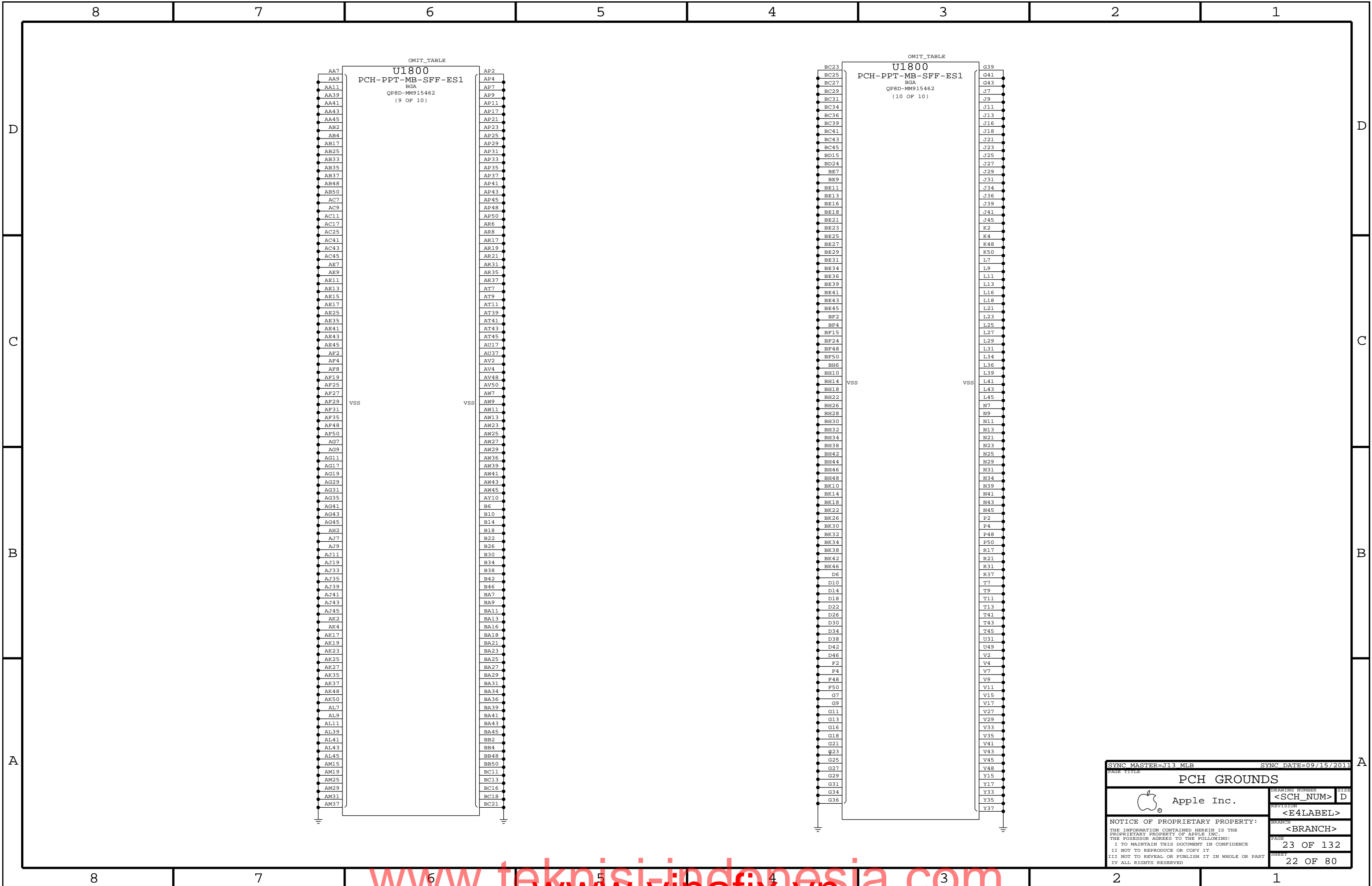
| BOM GROUP | BOM OPTIONS |
|-------------|--|
| RAMCFG_SLOT | RAMCFG3:H, RAMCFG2:H, RAMCFG1:H, RAMCFG0:H |

Systems with no chip-down memory should pull all 4 RAMCFG GPIOs high.
Systems with chip-down memory should add pull-downs on another page and set straps per software.

R2574 is 1K series resistor between U2100 output and PCH input to reduce the current between the two drivers..








SYNC MASTER=J13 MLB

SYNC DATE=09/15/2011

PAGE TITLE

PCH GROUNDS

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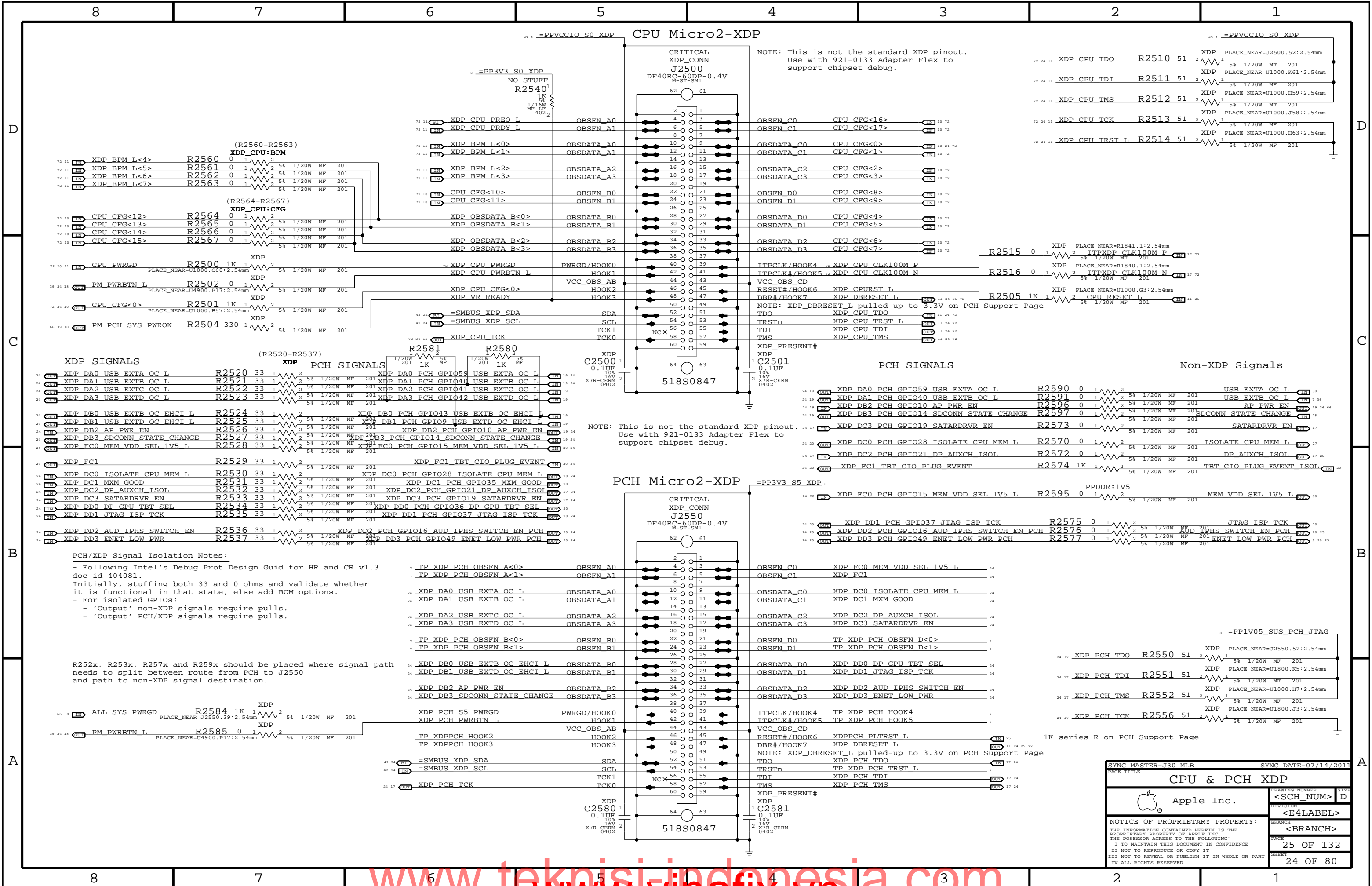
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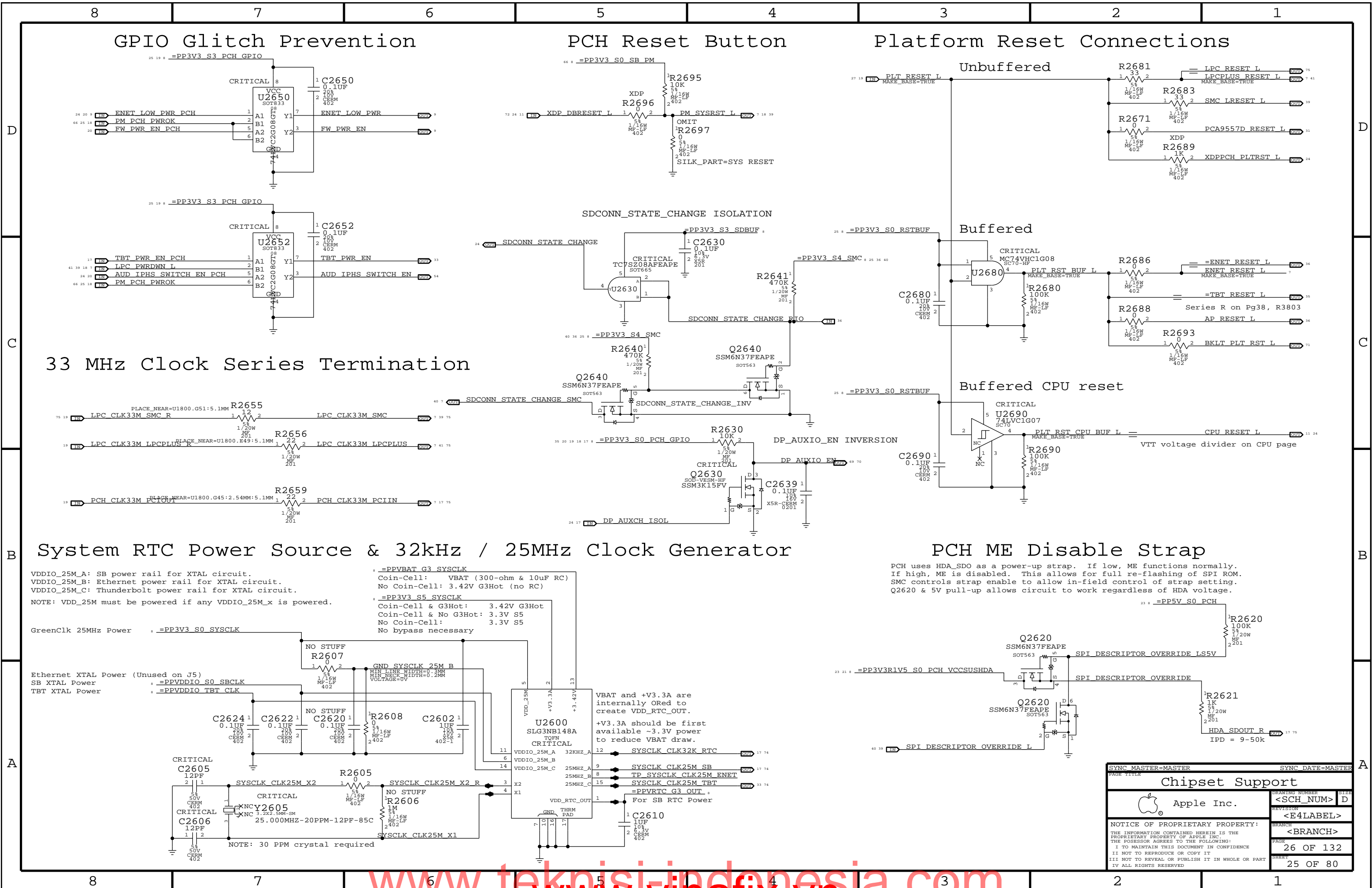
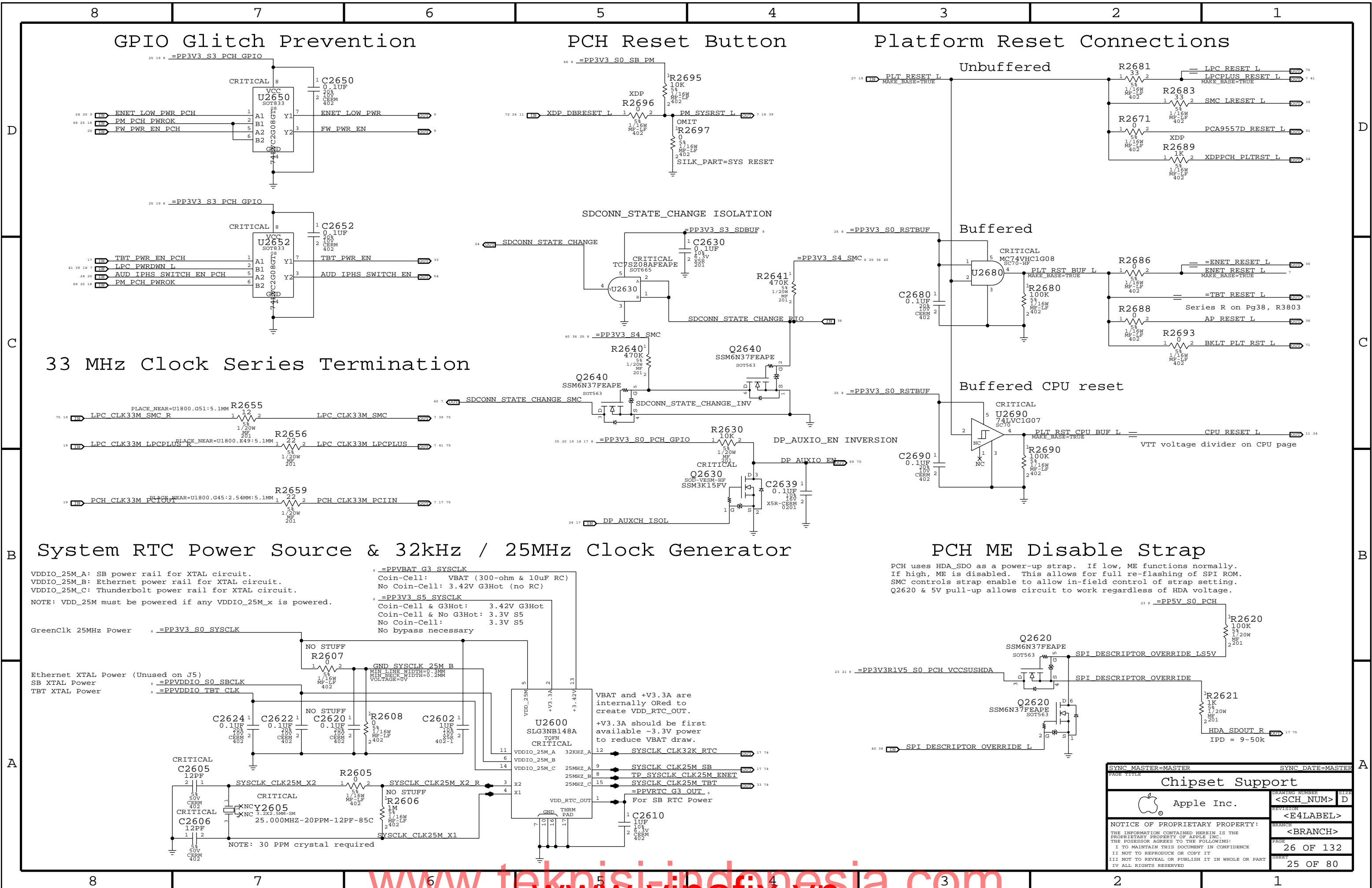
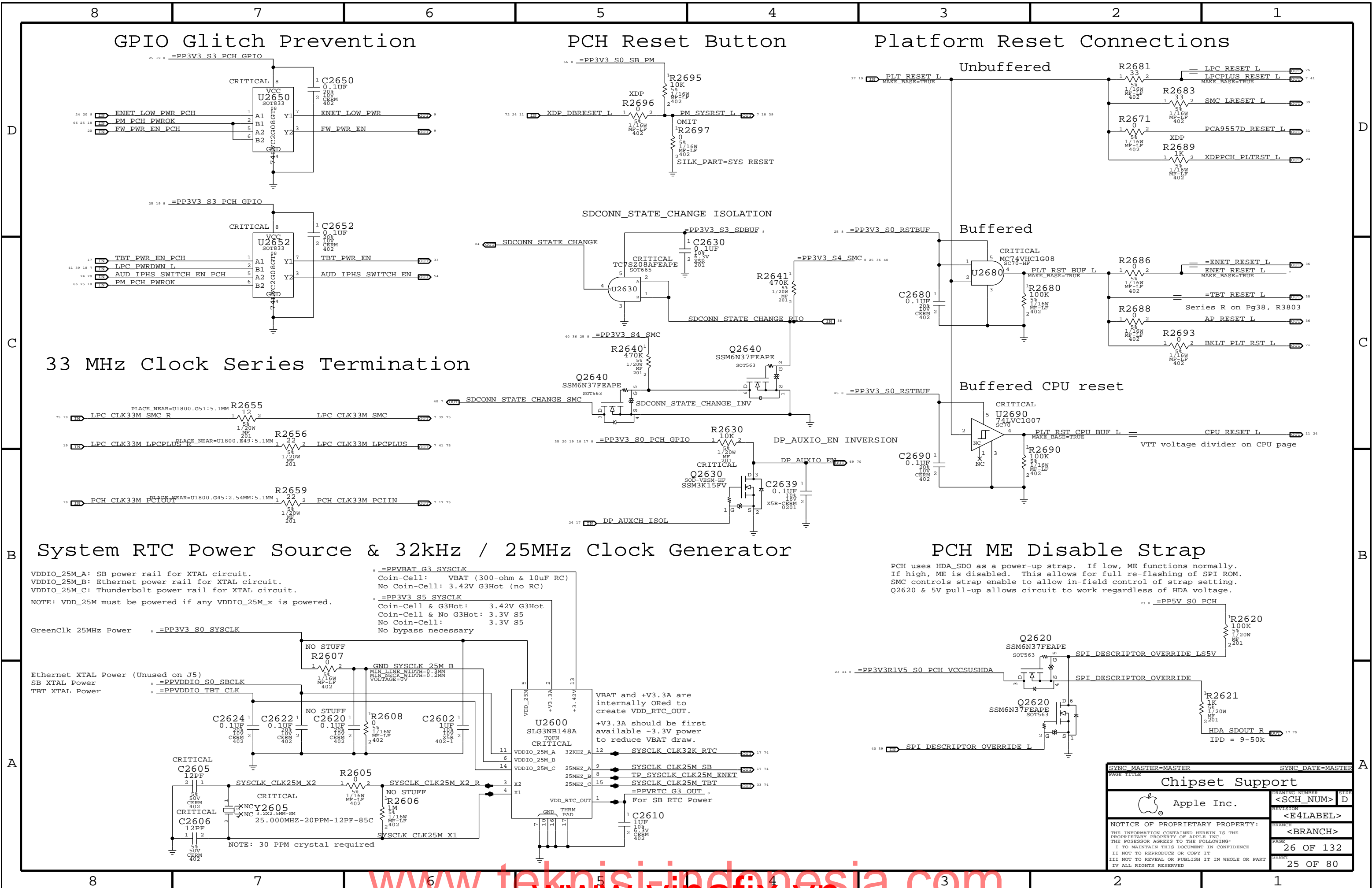
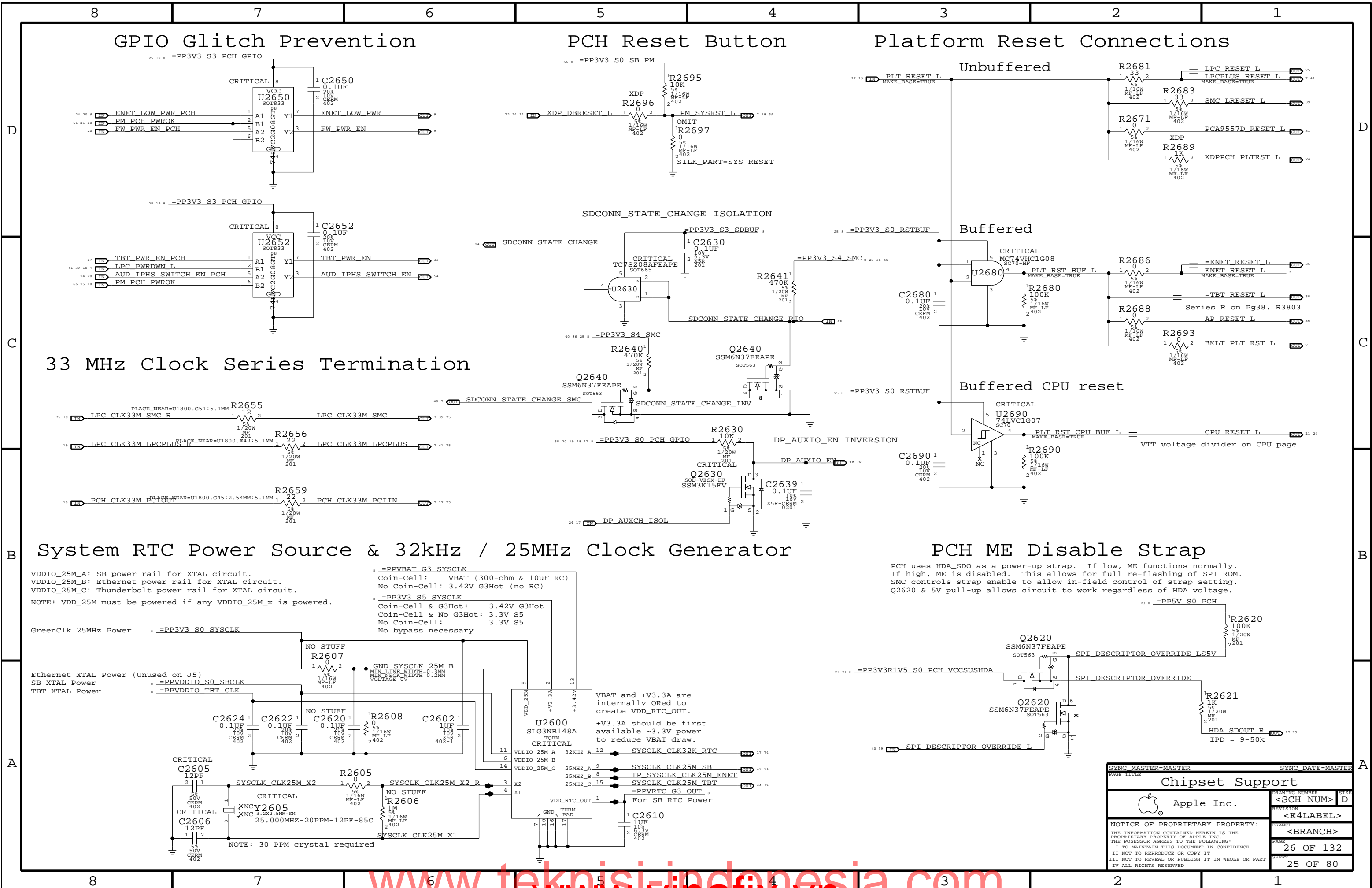
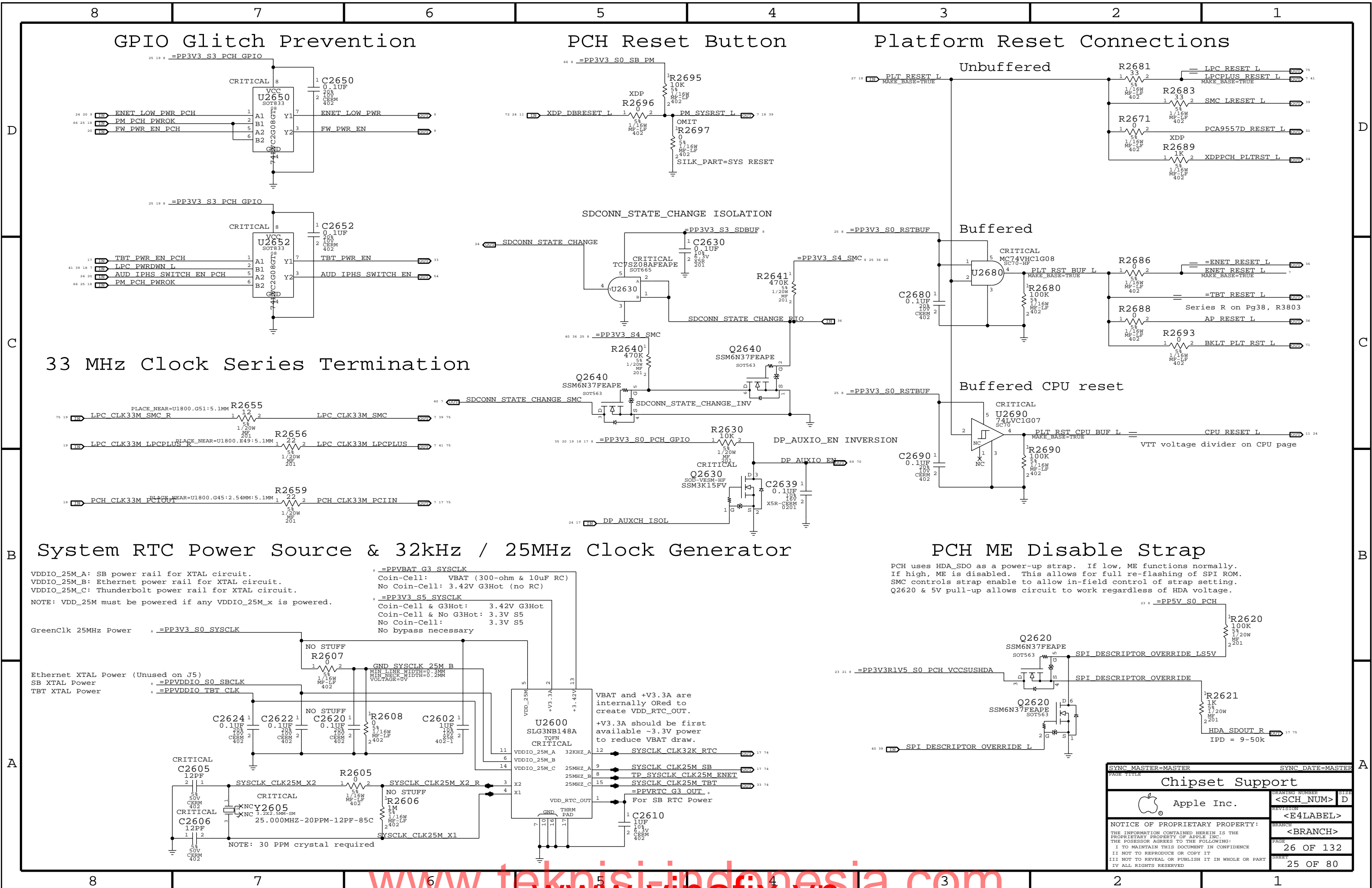
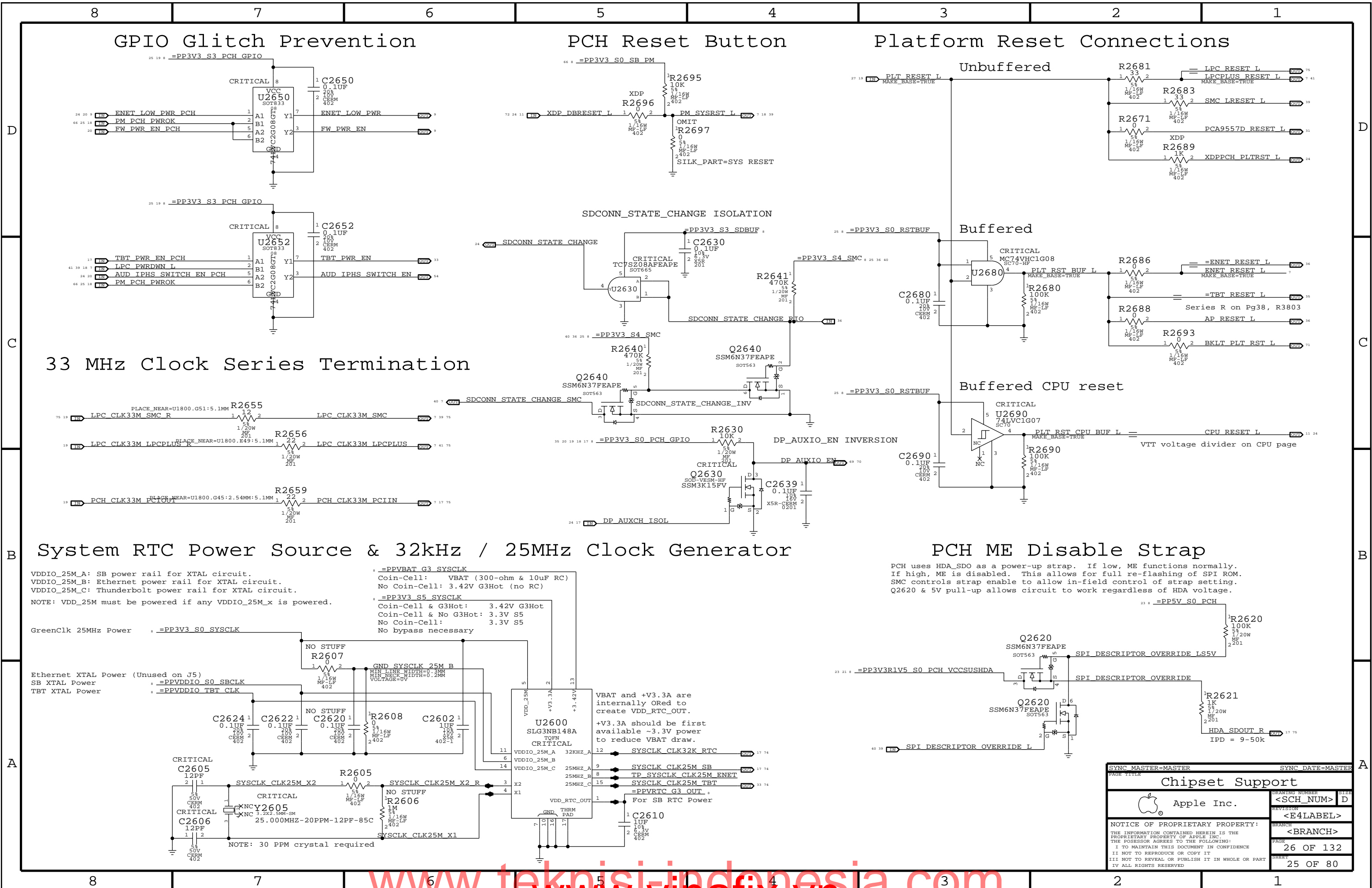
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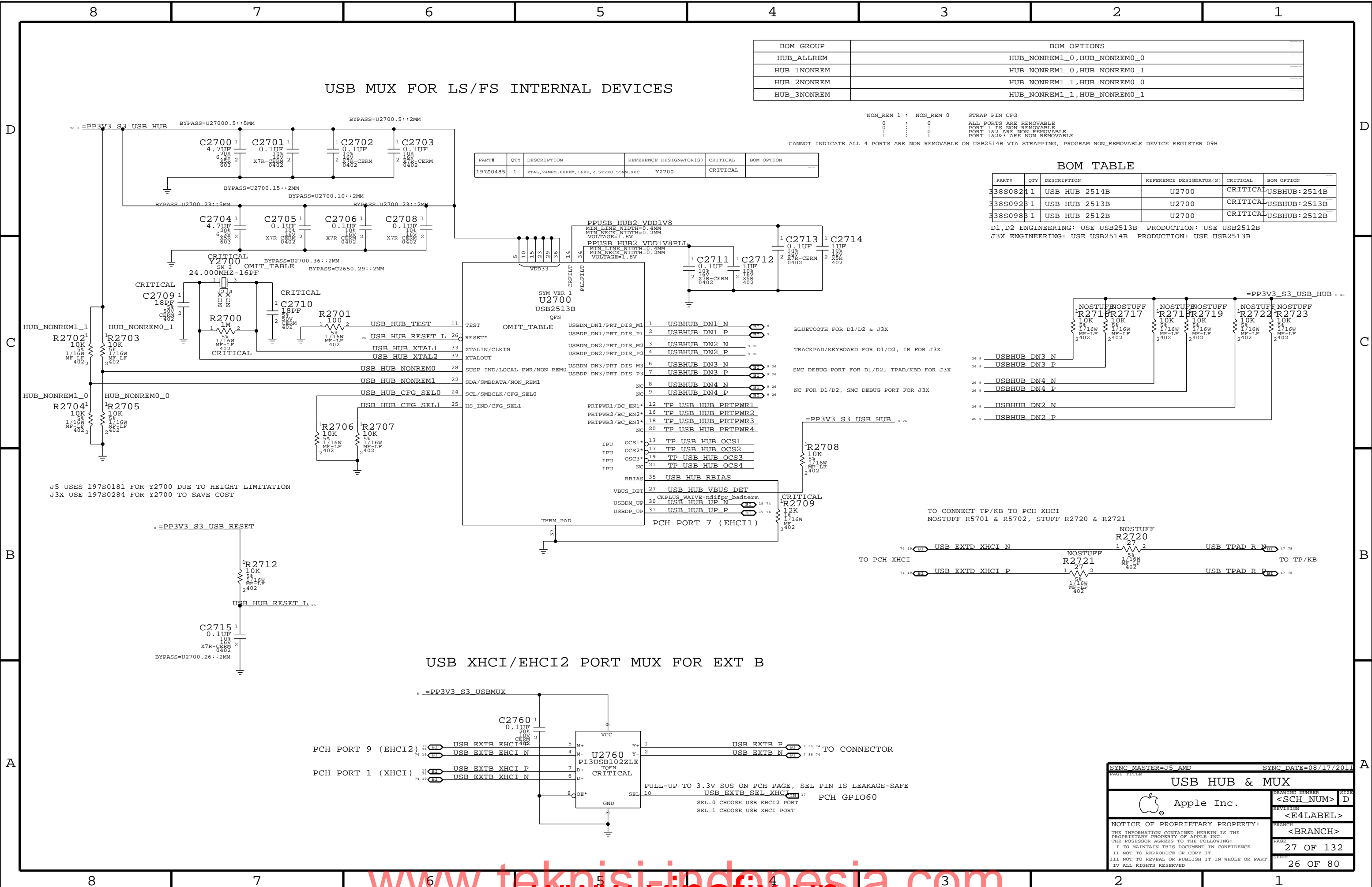
SHEET

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[illegible]

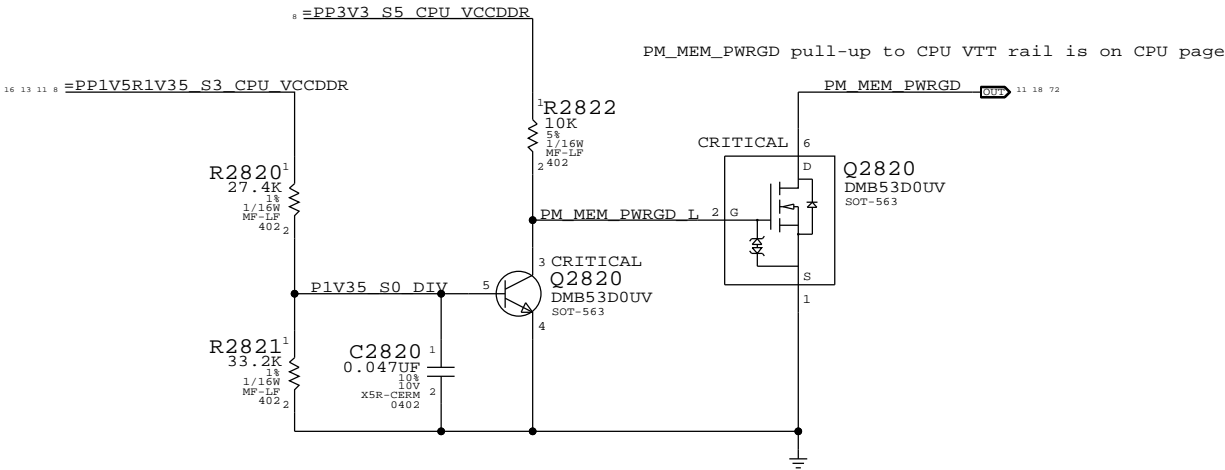


The circuit below handles CPU and VTT power during S0->S3->S0 transitions, as well as isolating the CPU's SM_DRAMRST# output from the SO-DIMMs when necessary.

ISOLATE_CPU_MEM_L GPIO state during S3->S0 transitions determines behavior of signals.
WHEN HIGH: CPU 1.5V remains powered in S3, VTT follows S0 rails, MEM_RESET_L not isolated.
WHEN LOW: CPU 1.5V follows S0 rails, VTT ensures clean CKE transition, MEM_RESET_L isolated.

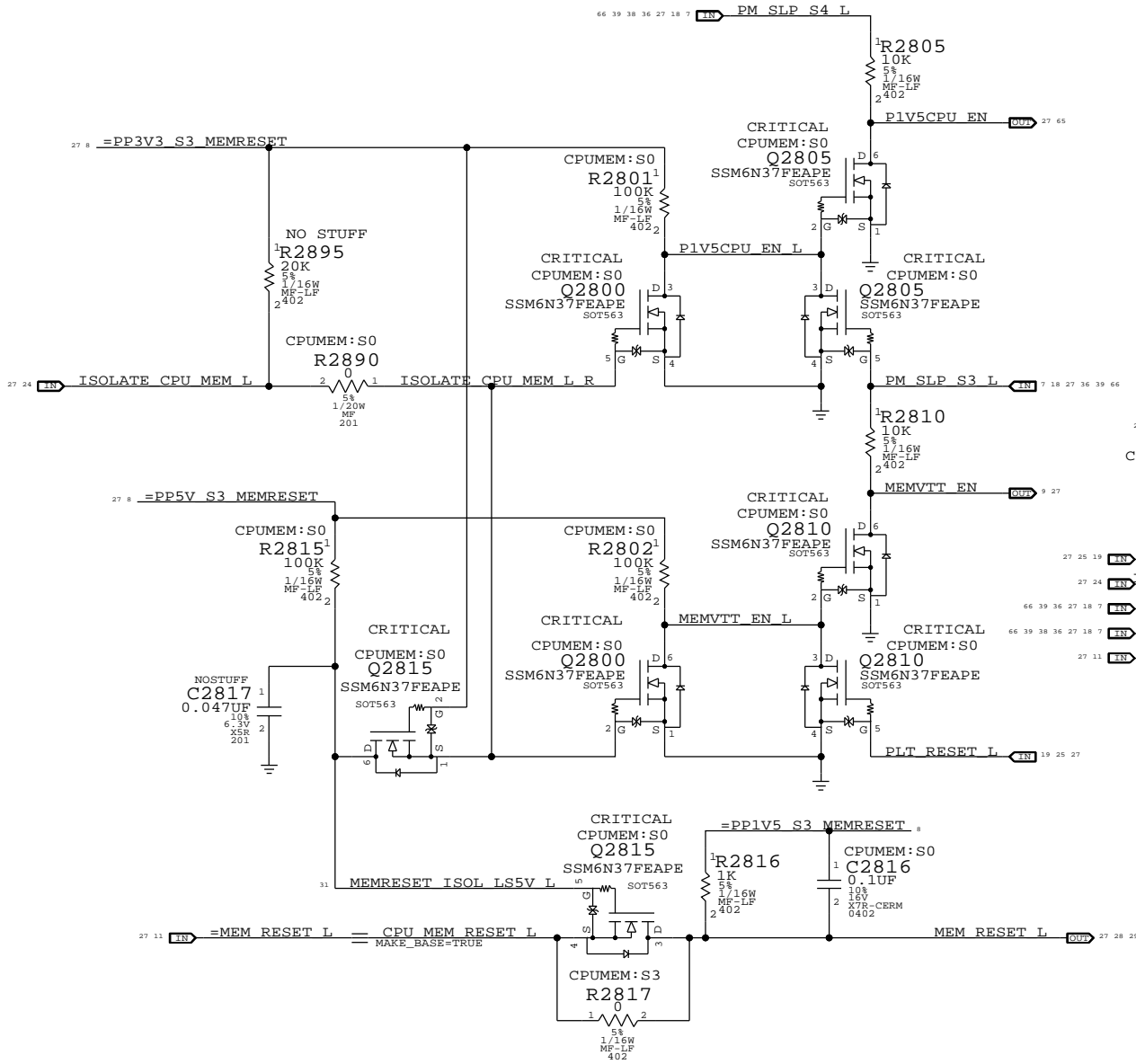
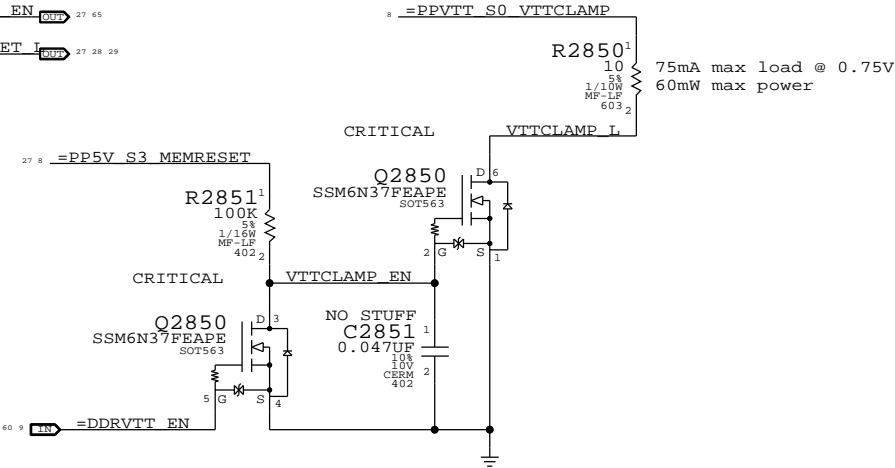
P1V5CPU_EN = (ISOLATE_CPU_MEM_L + PM_SLP_S3_L) * PM_SLP_S4_L
MEMVTT_EN = (ISOLATE_CPU_MEM_L + PLT_RST_L) * PM_SLP_S3_L
MEM_RESET_L = !ISOLATE_CPU_MEM_L + CPU_MEM_RESET_L

1V35 S0 "PGOOD" for CPU



MEMVTT Clamp

Ensures CKE signals are held low in S3

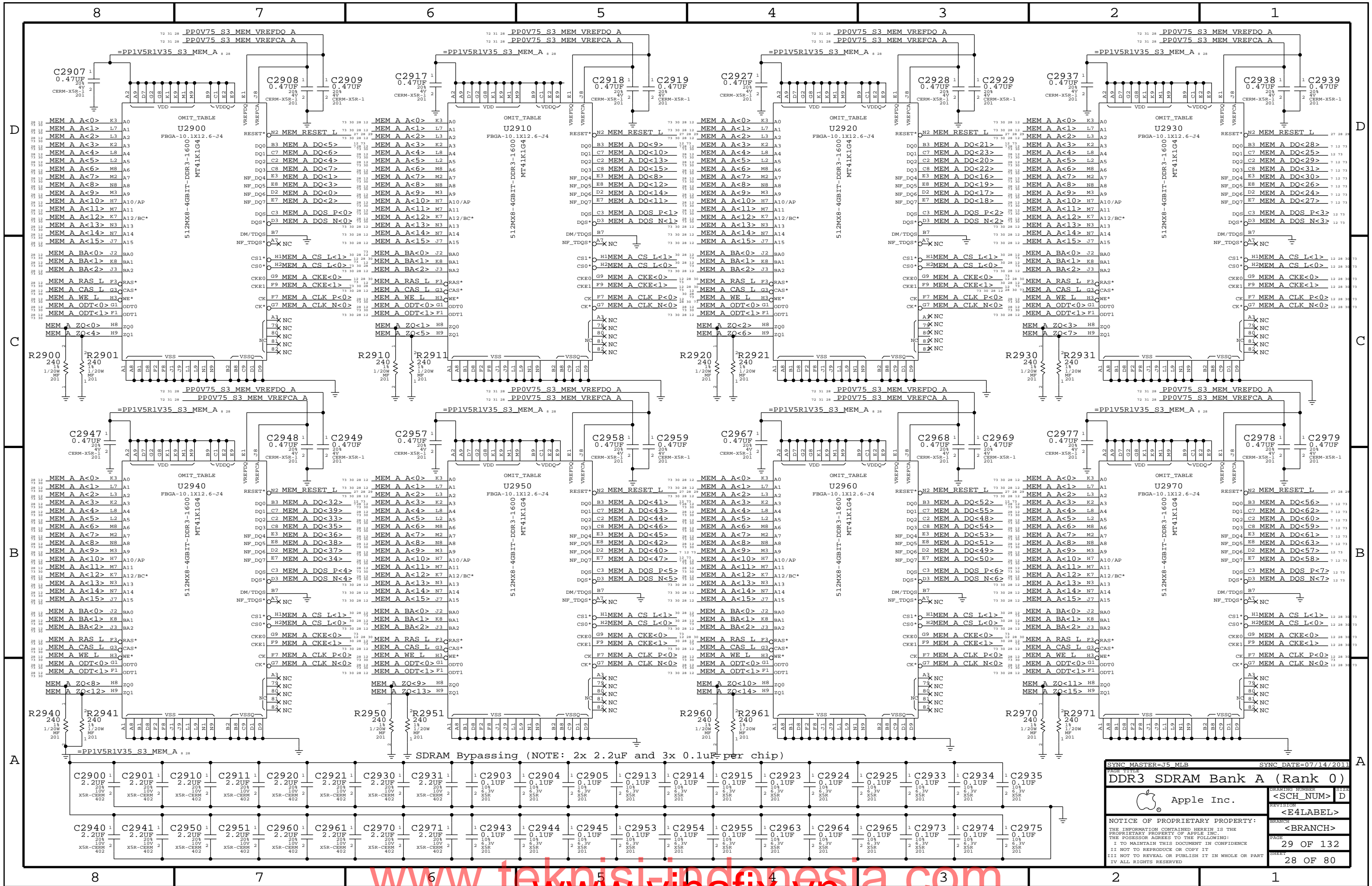



| Step | ISOLATE_CPU_MEM_L | PLT_RST_L | PM_SLP_S3_L | PM_SLP_S4_L | CPU_MEM_RESET_L | MEM_RESET_L | MEMVTT_EN | P1V5CPU_EN |
|------|-------------------|-----------|-------------|-------------|-----------------|-----------------|-----------|------------|
| S0 | 0 | 1 | 1 | 1 | 1 | CPU_MEM_RESET_L | 1 | 1 |
| to | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 1 |
| 3 | 0 | 0 | 0 | 1 | X | 1 | 0 | 0 |
| 4 | 0 | 0 | 1 | 1 | X | 1 | 0 | 1 |
| 5 | 0 | 1 | 1 | 1 | 0 (*) | 1 | 1 | 1 |
| 6 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| S0 | 7 | 1 | 1 | 1 | 1 | CPU_MEM_RESET_L | 1 | 1 |

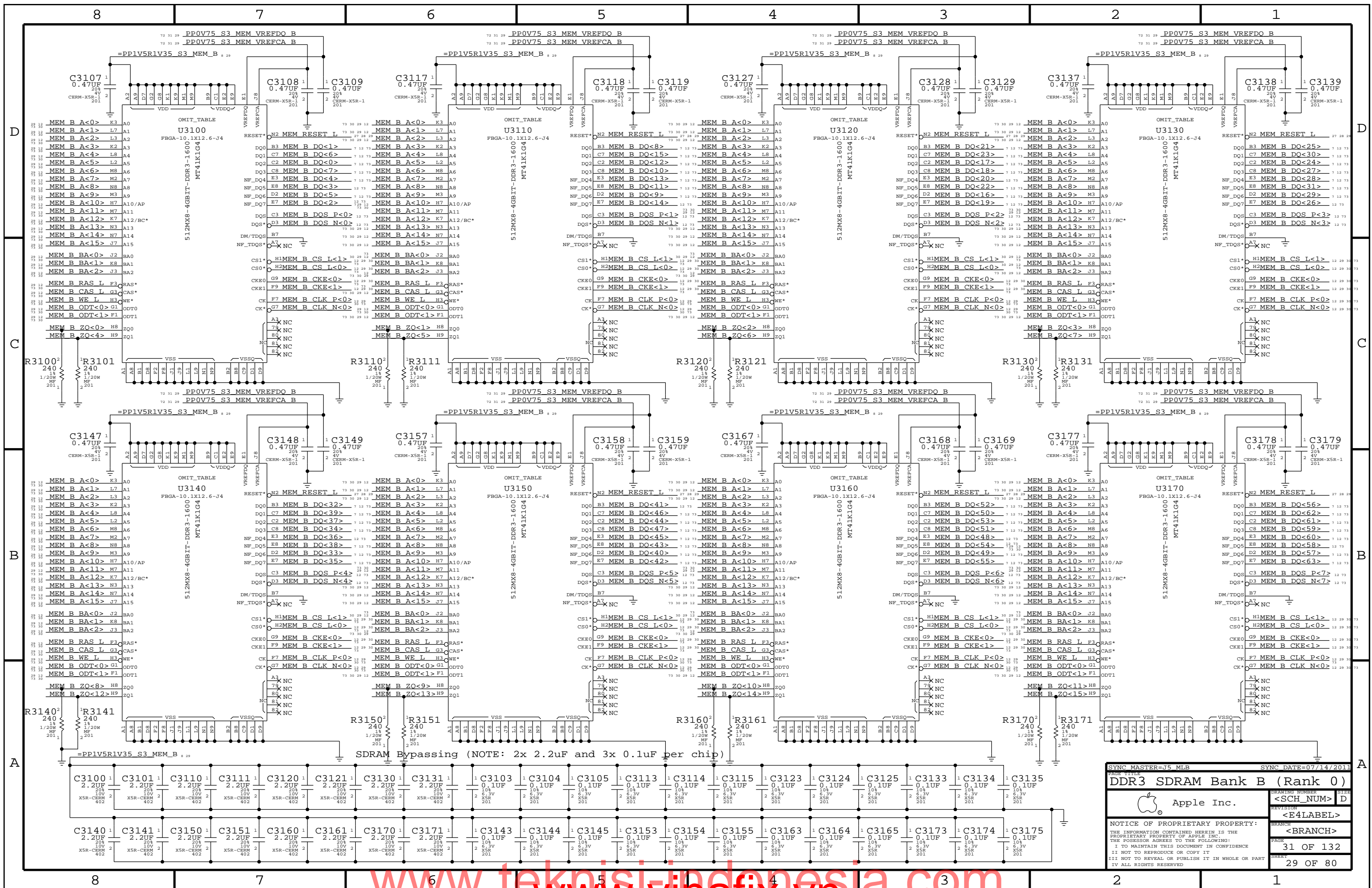
(*) CPU_MEM_RESET_L asserts due to loss of PM_MEM_PWRGD, must wait for software to clear before deasserting ISOLATE_CPU_MEM_L GPIO.


NOTE: In the event of a S3->S5 transition ISOLATE_CPU_MEM_L will still be asserted on next S5->S0 transition. Rails will power-up as if from S3, but MEM_RESET_L will not properly assert. Software must deassert ISOLATE_CPU_MEM_L and then generate a valid reset cycle on CPU_MEM_RESET_L.

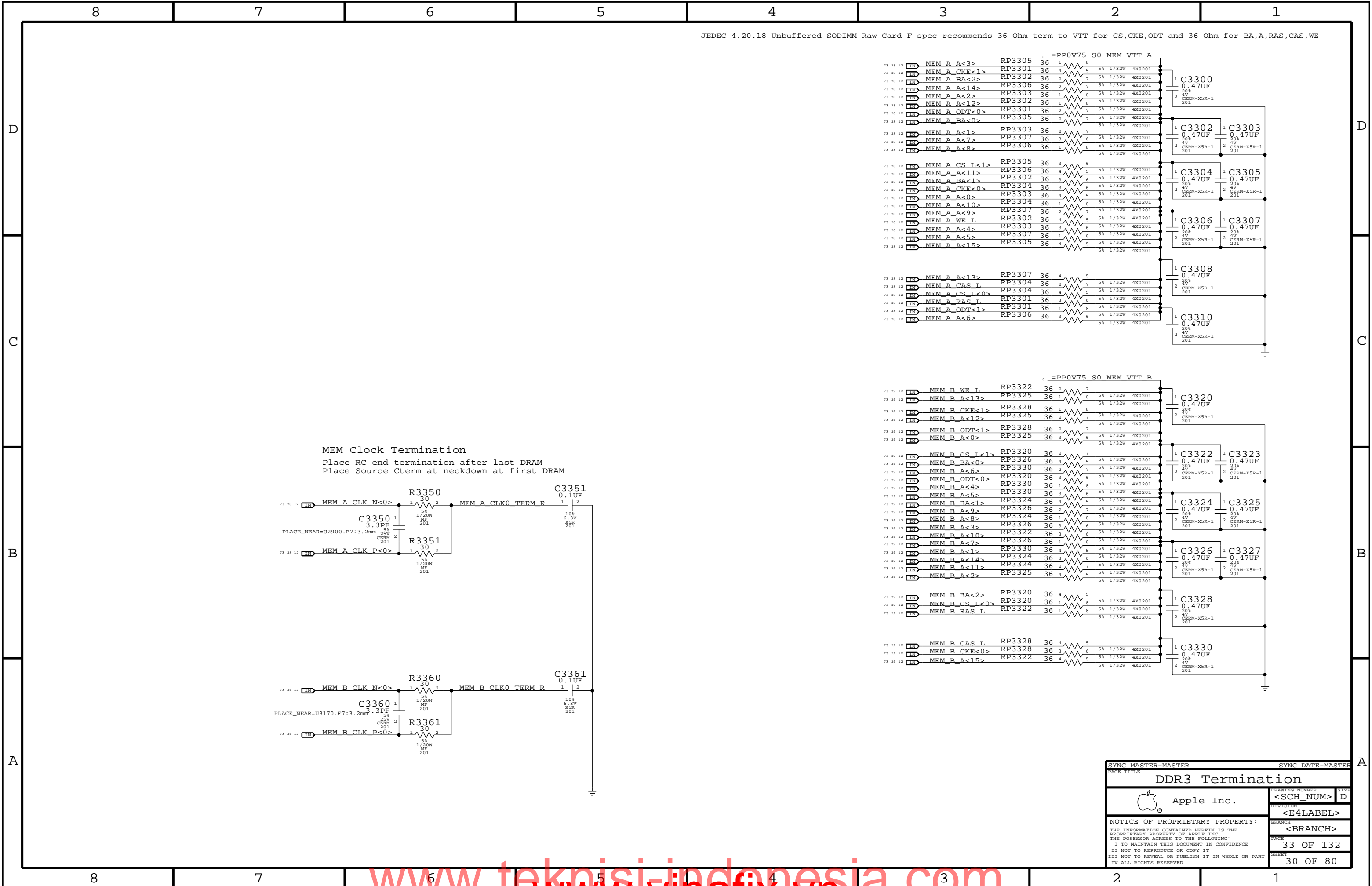
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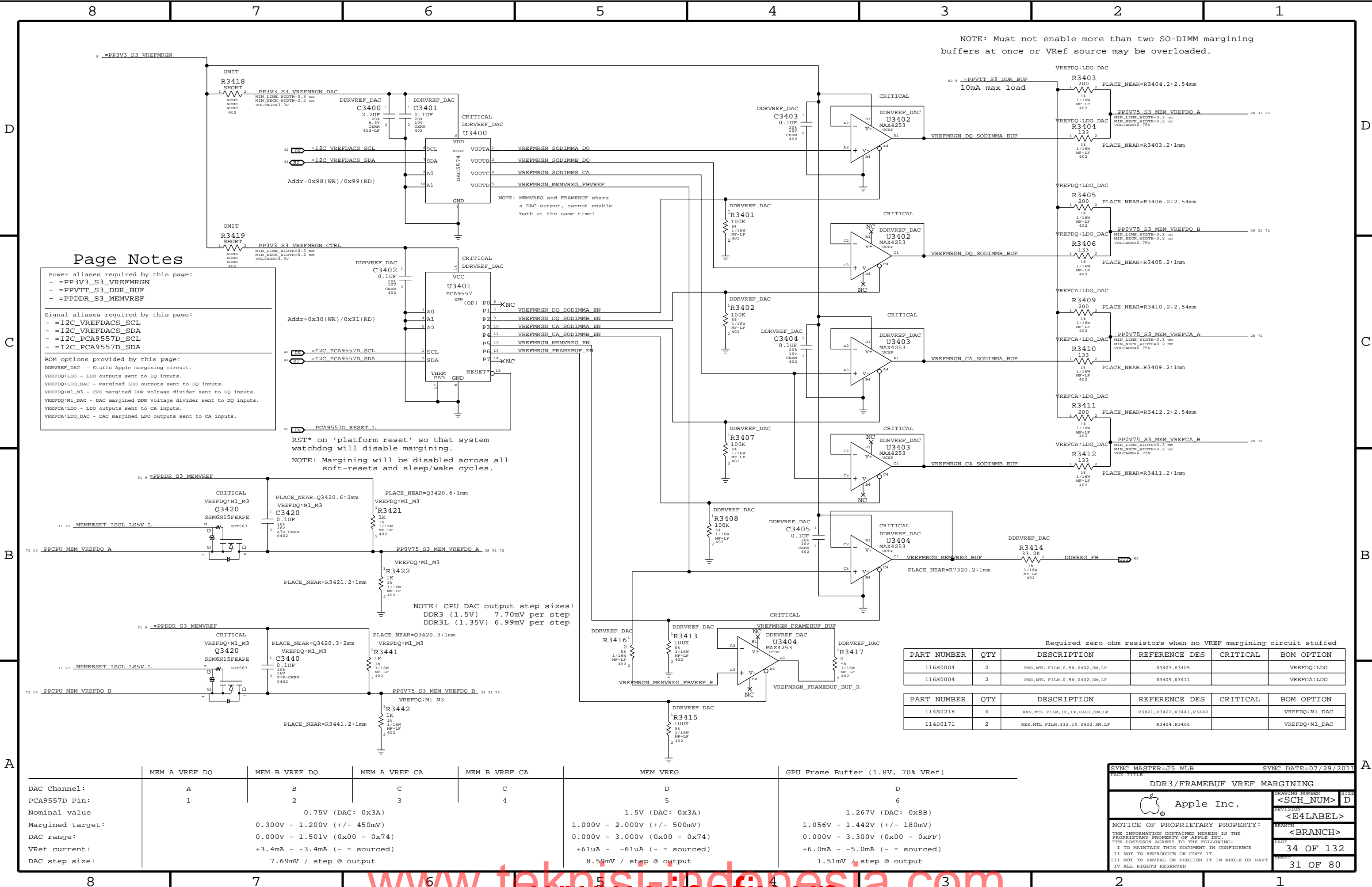


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| PAGE TITLE | | | |
| DDR3 SDRAM Bank A (Rank 0) | | | |
|  Apple Inc. | | DRAWING NUMBER | SIZE |
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|---|--|----------------------|-----------|
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| PAGE TITLE | | | |
| DDR3 SDRAM Bank B (Rank 0) | | | |
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| | | BRANCH | <BRANCH> |
| | | PAGE | 31 OF 132 |
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Page Notes

Power aliases required by this page:
- =PP3V3_S3_VREFMRGN
- =PPVTT_S3_DDR_BUF
- =PPDDR_S3_MEMVREF

Signal aliases required by this page:
- =I2C_VREFDACS_SCL
- =I2C_VREFDACS_SDA
- =I2C_PCA9557D_SCL
- =I2C_PCA9557D_SDA

BOM options provided by this page:
DDRREF_DAC - Stuffs Apple margining circuit.
VREFDQ:LDO - LDO outputs sent to DQ inputs.
VREFDQ:LDO_DAC - Margined LDO outputs sent to DQ inputs.
VREFDQ:M1_M3 - CPU margined DDR voltage divider sent to DQ inputs.
VREFDQ:M1_DAC - DAC margined DDR voltage divider sent to DQ inputs.
VREFCA:LDO - LDO outputs sent to CA inputs.
VREFCA:LDO_DAC - DAC margined LDO outputs sent to CA inputs.

RST* on 'platform reset' so that system watchdog will disable margining.
NOTE: Margining will be disabled across all soft-resets and sleep/wake cycles.

NOTE: Must not enable more than two SO-DIMM margining buffers at once or VRef source may be overloaded.

| PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION |
|-------------|-----|------------------------------|---------------|----------|------------|
| 116S0004 | 2 | RES,MTL FILM,0.5%,0402,SM,LF | R3403,R3405 | | VREFDQ:LDO |
| 116S0004 | 2 | RES,MTL FILM,0.5%,0402,SM,LF | R3409,R3411 | | VREFCA:LDO |

| PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION |
|-------------|-----|--------------------------------|-------------------------|----------|---------------|
| 114S0218 | 4 | RES,MTL FILM,1K,1%,0402,SM,LF | R3421,R3422,R3441,R3442 | | VREFDQ:M1_DAC |
| 114S0171 | 2 | RES,MTL FILM,332,1%,0402,SM,LF | R3404,R3406 | | VREFDQ:M1_DAC |

| | MEM A VREF DQ | MEM B VREF DQ | MEM A VREF CA | MEM B VREF CA | MEM VREG | GPU Frame Buffer (1.8V, 70% VRef) |
|------------------|---------------|-------------------------------|---------------|---------------|-------------------------------|-----------------------------------|
| DAC Channel: | A | B | C | C | D | D |
| PCA9557D Pin: | 1 | 2 | 3 | 4 | 5 | 6 |
| Nominal value | | 0.75V (DAC: 0x3A) | | | 1.5V (DAC: 0x3A) | 1.267V (DAC: 0x8B) |
| Margined target: | | 0.300V - 1.200V (+/- 450mV) | | | 1.000V - 2.000V (+/- 500mV) | 1.056V - 1.442V (+/- 180mV) |
| DAC range: | | 0.000V - 1.501V (0x00 - 0x74) | | | 0.000V - 3.000V (0x00 - 0x74) | 0.000V - 3.300V (0x00 - 0xFF) |
| VRef current: | | +3.4mA - -3.4mA (- = sourced) | | | +61uA - -61uA (- = sourced) | +6.0mA - -5.0mA (- = sourced) |
| DAC step size: | | 7.69mV / step @ output | | | 8.59mV / step @ output | 1.51mV / step @ output |

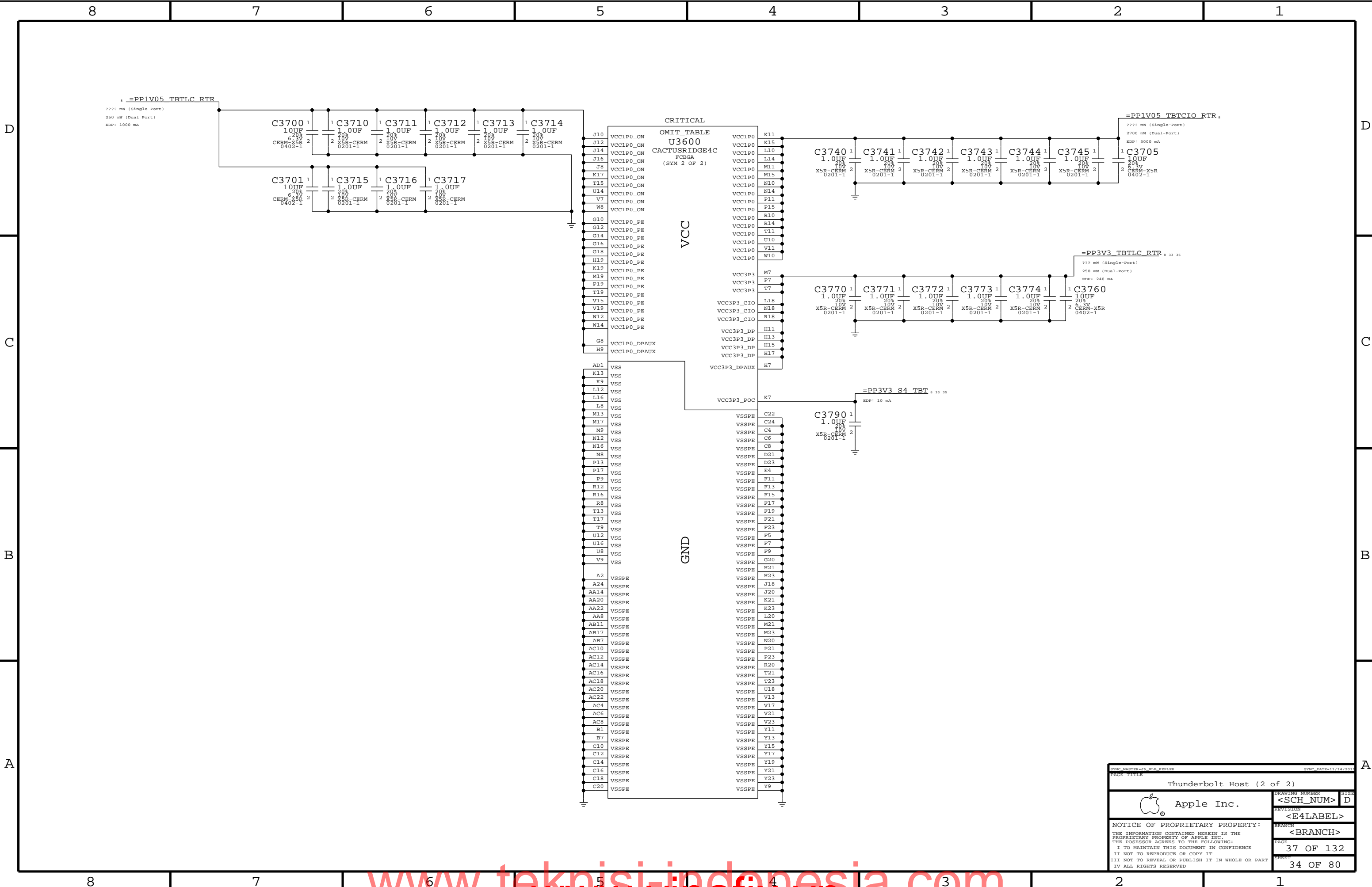
SYNC MASTER=J5 MLB
PAGE TITLE
DDR3/FRAMEBUF VREF MARGINING

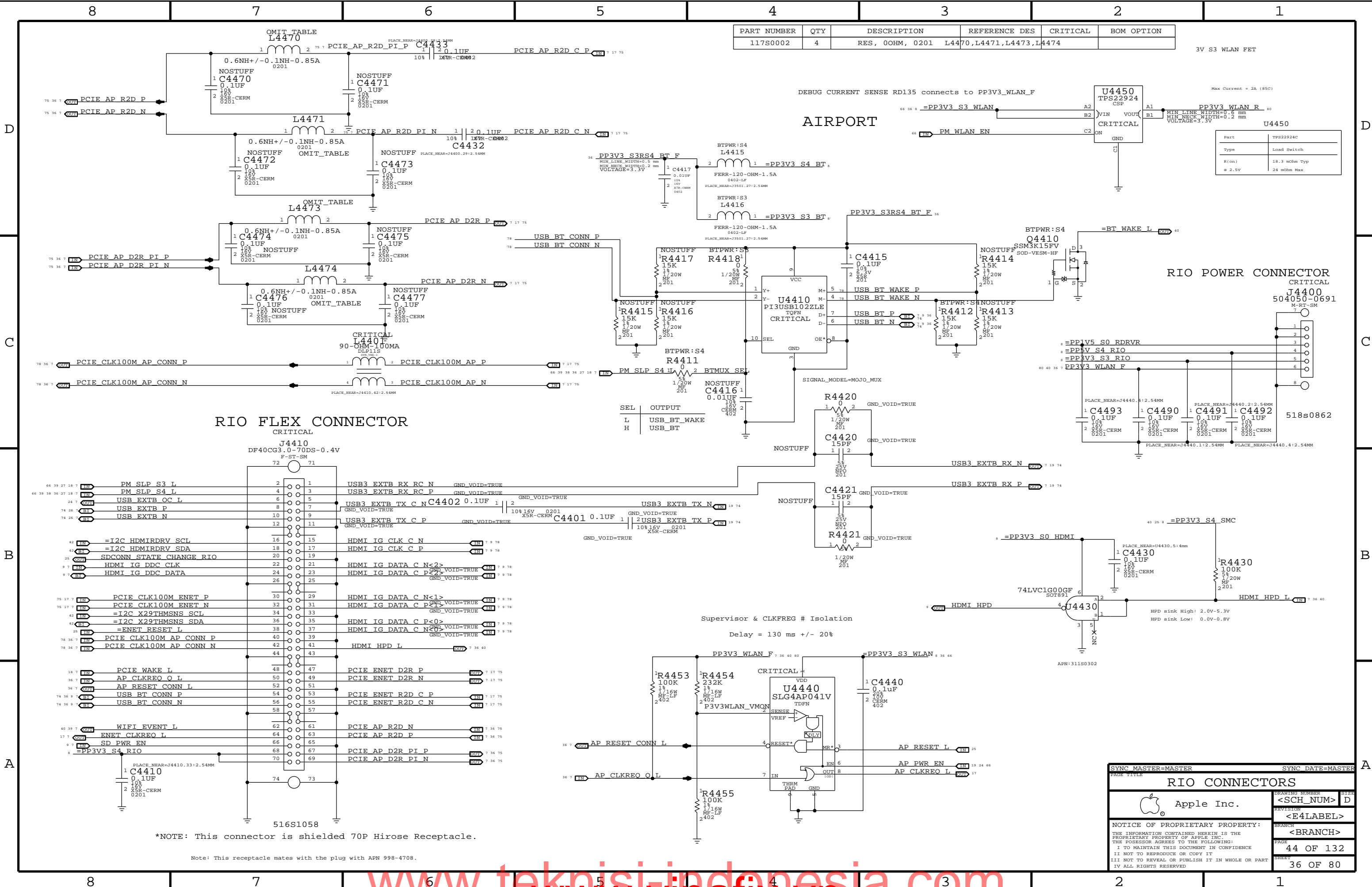
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


| PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION |
|-------------|-----|-----------------|-------------------------|----------|------------|
| 117S0002 | 4 | RES, 00HM, 0201 | L4470,L4471,L4473,L4474 | | |

| | |
|------------------------|---------------|
| 3V S3 WLAN FET | |
| Max Current = 2A (85C) | |
| Part | TPS22924C |
| Type | Load Switch |
| R(on) | 18.3 mOhm Typ |
| @ 2.5V | 24 mOhm Max |

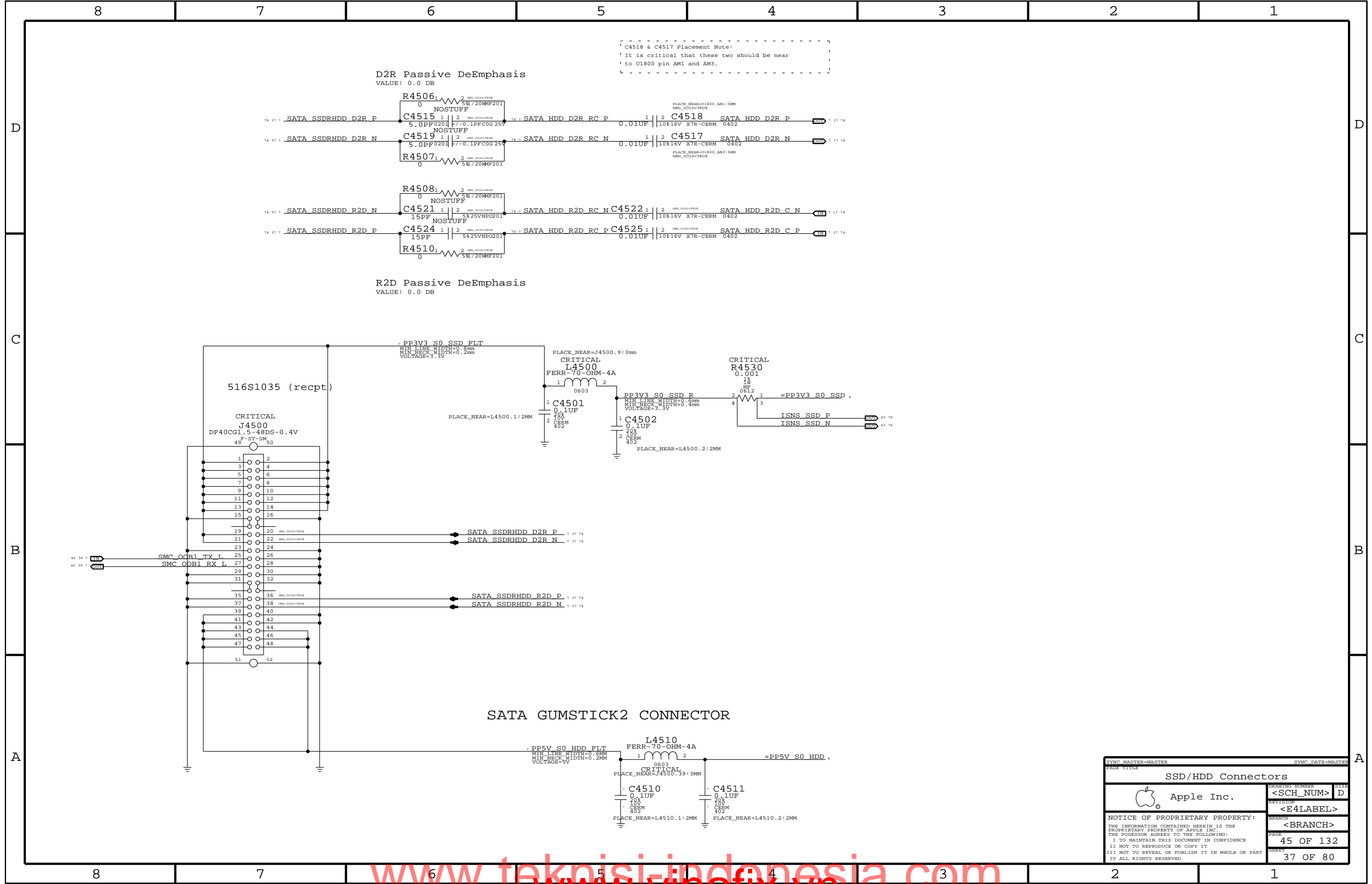
| | |
|---------------------|--|
| RIO POWER CONNECTOR | |
| CRITICAL | |
| J4400 | |
| 504050-0691 | |
| M-RT-SM | |
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |
| 7 | |
| 8 | |


| | |
|----------|--|
| 518s0862 | |
| 1 | |
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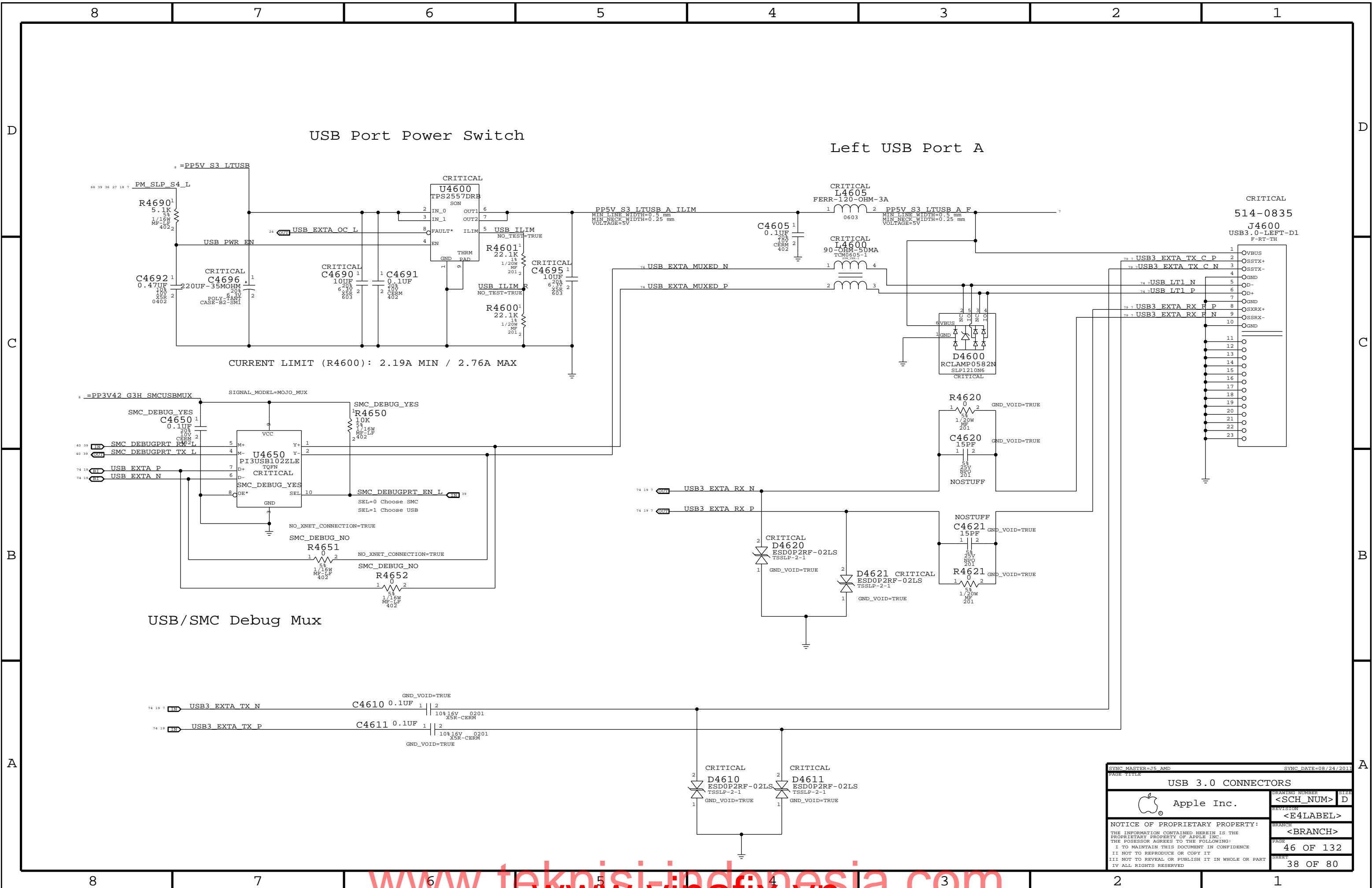
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| RIO CONNECTORS | | | |
|  Apple Inc. | | DRAWING NUMBER | SIZE |
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*NOTE: This connector is shielded 70P Hirose Receptacle.

Note: This receptacle mates with the plug with APN 998-4708.




| | | | |
|---|----------------|------------------|------|
| SYNC MASTER=MASTER | | SYNC DATE=MASTER | |
| PAGE TITLE | | | |
| SSD/HDD Connectors | | | |
|  Apple Inc. | DRAWING NUMBER | | SIZE |
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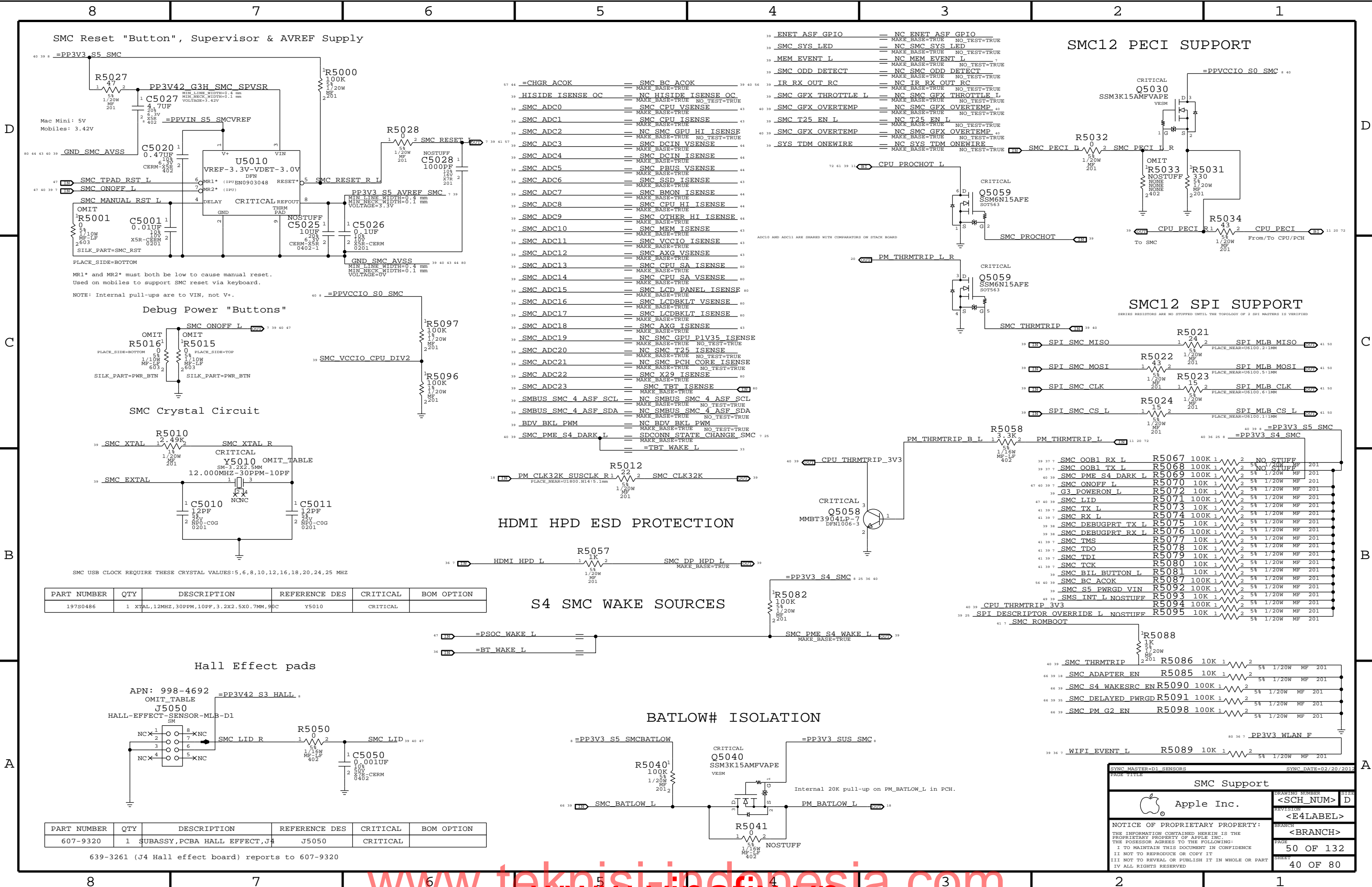


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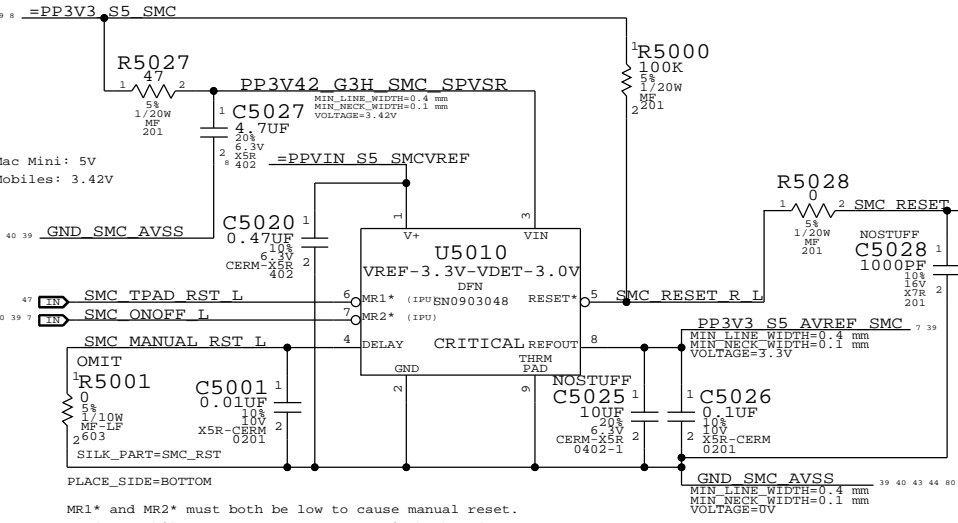
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| | | | |
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| SMC | | | |
|  Apple Inc. | | DRAWING NUMBER | |
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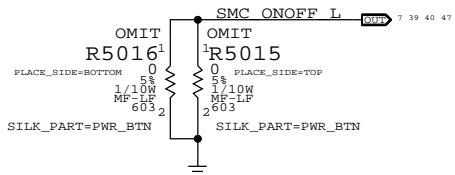
SMC Reset "Button", Supervisor & AVREF Supply



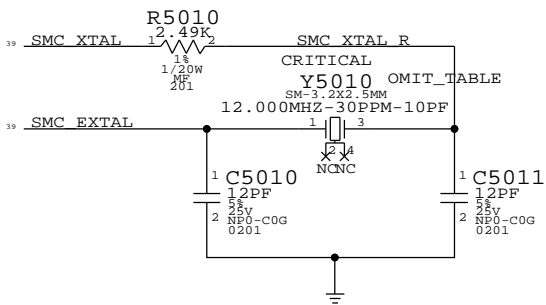
MR1* and MR2* must both be low to cause manual reset.
Used on mobiles to support SMC reset via keyboard.

NOTE: Internal pull-ups are to VIN, not V+.

Debug Power "Buttons"



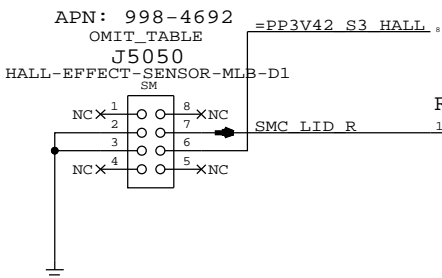
SMC Crystal Circuit



SMC USB CLOCK REQUIRE THESE CRYSTAL VALUES:5,6,8,10,12,16,18,20,24,25 MHZ

| PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION |
|-------------|-----|--|---------------|----------|------------|
| 197S0486 | 1 | XTAL, 12MHZ, 30PPM, 10PF, 3.2X2.5X0.7MM, 90C | Y5010 | CRITICAL | |

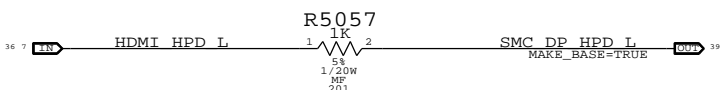
Hall Effect pads



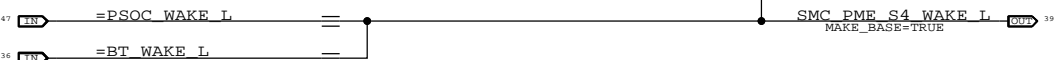
| PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION |
|-------------|-----|-----------------------------|---------------|----------|------------|
| 607-9320 | 1 | SUBASSY,PCBA HALL EFFECT,J4 | J5050 | CRITICAL | |

639-3261 (J4 Hall effect board) reports to 607-9320

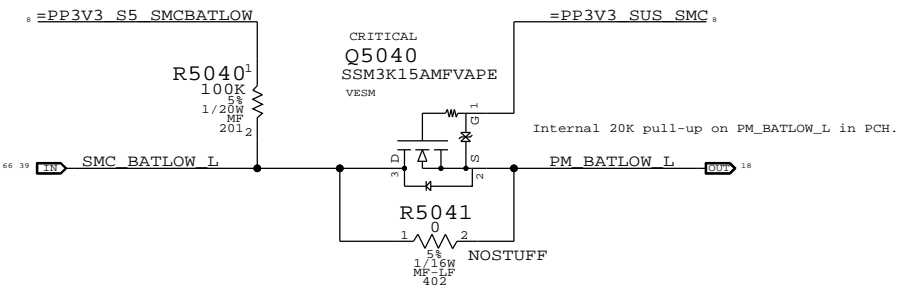
HDMI HPD ESD PROTECTION



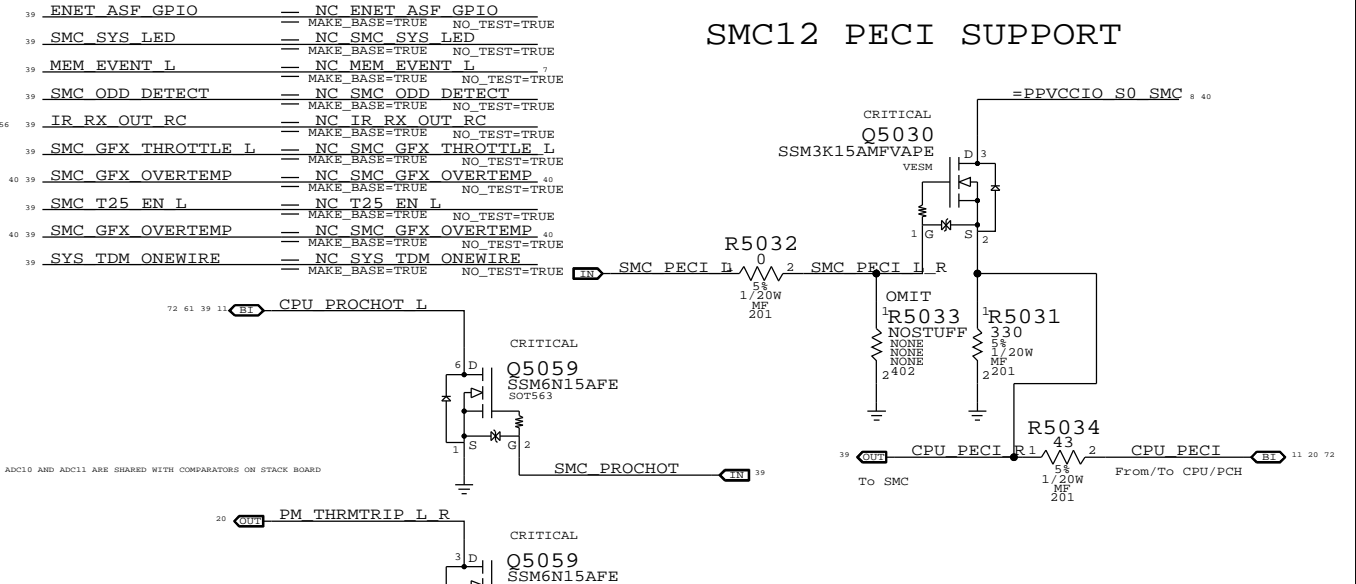
S4 SMC WAKE SOURCES



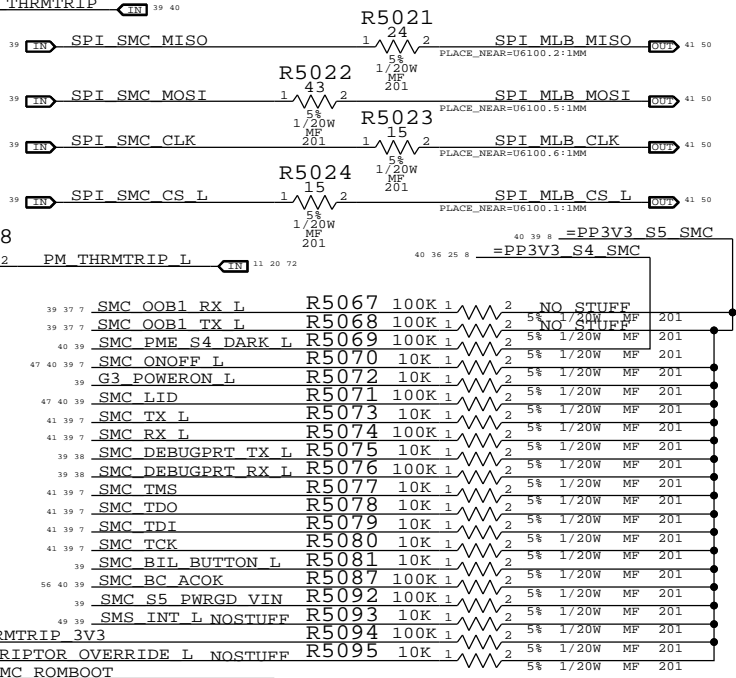
BATLOW# ISOLATION



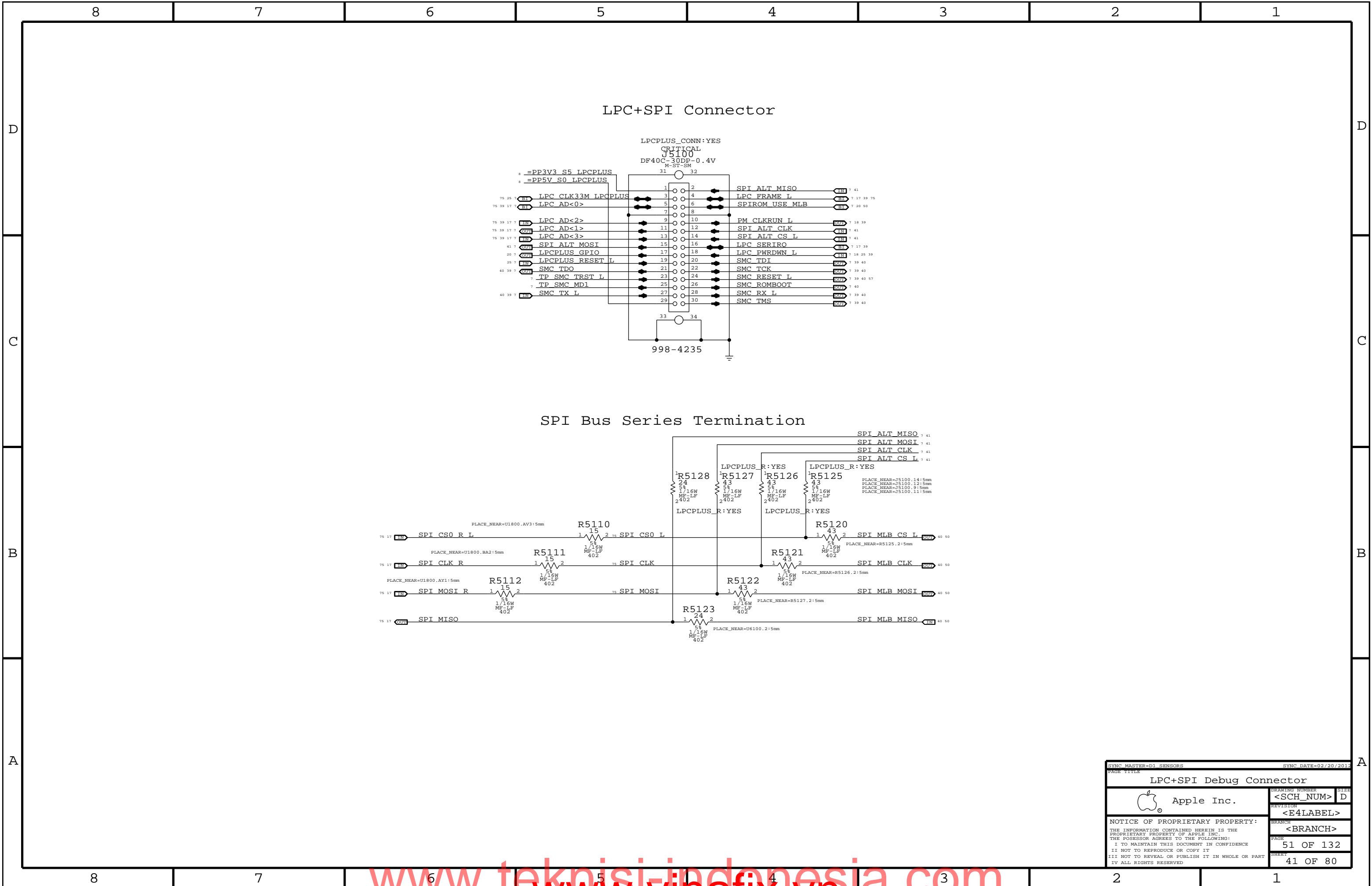
SMC12 PECE SUPPORT

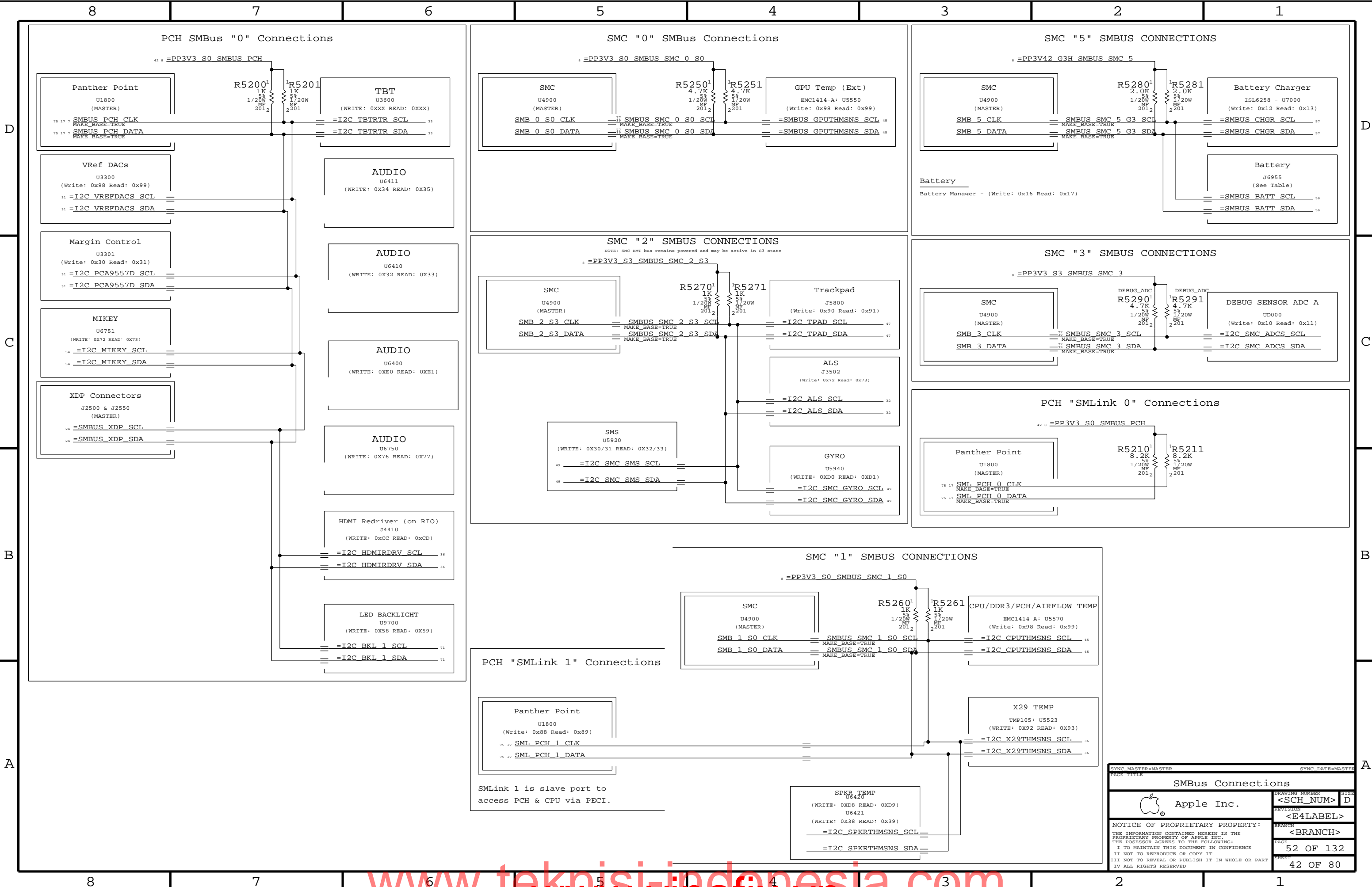


SMC12 SPI SUPPORT

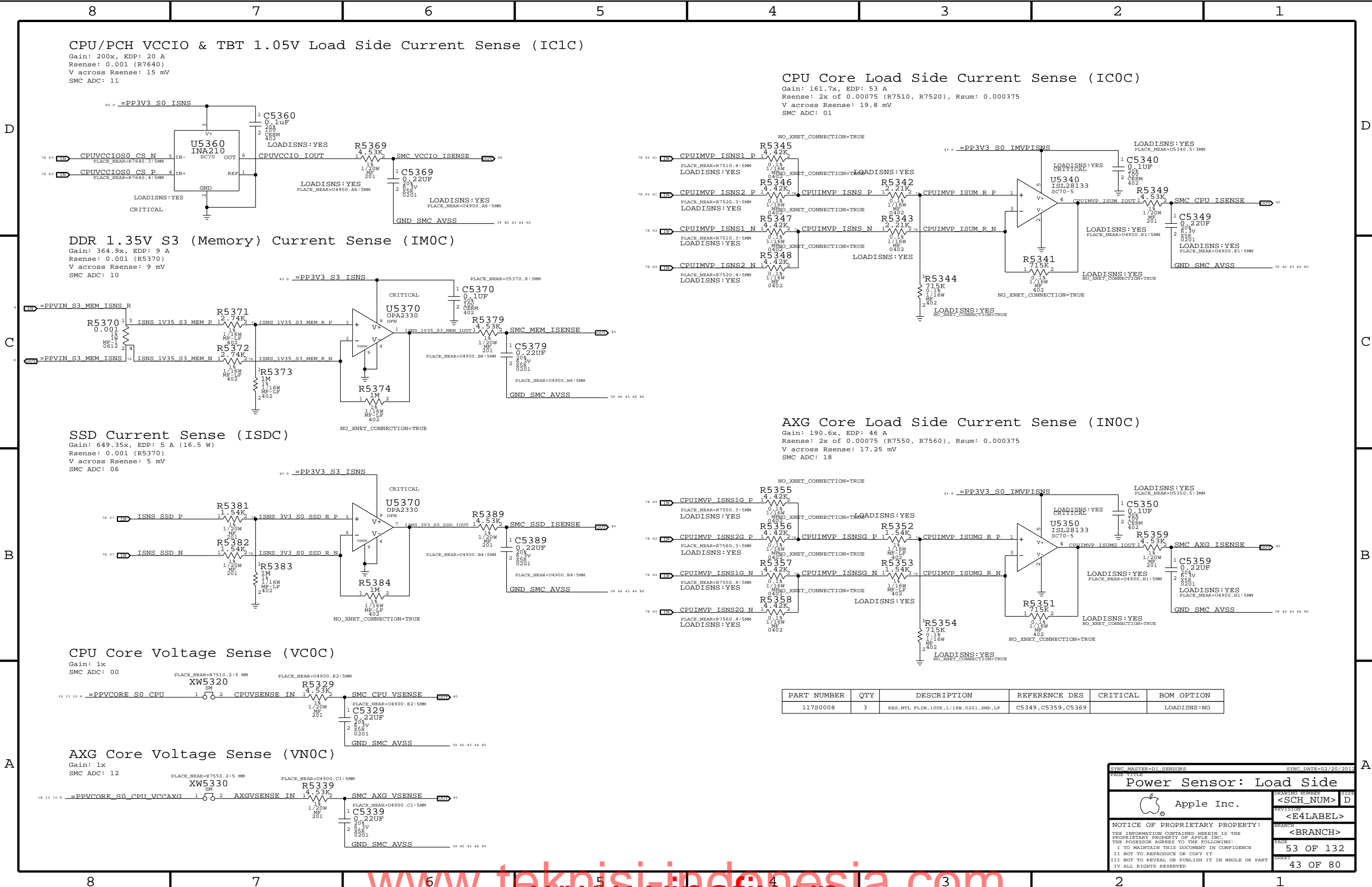


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| PAGE TITLE | | | |
| SMC Support | | DRAWING NUMBER | |
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| SYNC MASTER=MASTER | | SYNC DATE=MASTER | |
| PAGE TITLE | | PAGE | |
| SMBus Connections | | DRAWING NUMBER | SIZE |
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| | | | |



| PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION |
|-------------|-----|-------------------------------------|-------------------|----------|-------------|
| 117S0008 | 3 | RES,MTL FLIM,100K,1/16W,0201,SMD,LF | C5349,C5359,C5369 | | LOADISNS:NO |

SYNC MASTER=D1 SENSORS

SYNC DATE=03/20/2012

Power Sensor: Load Side

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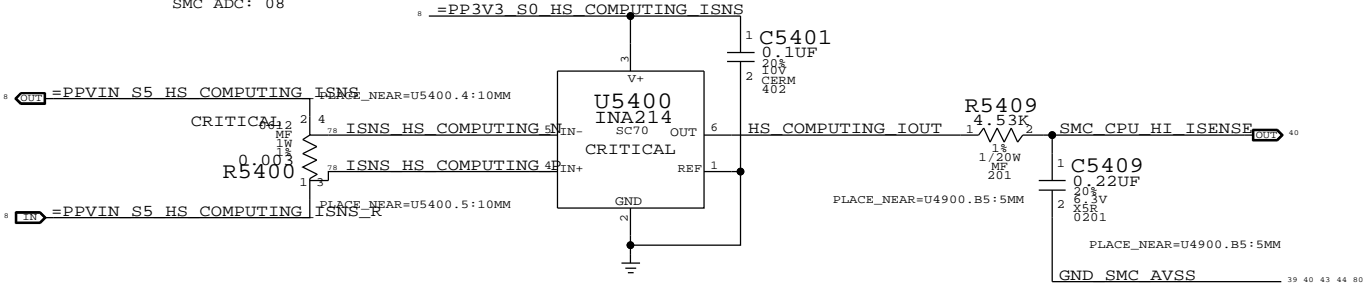
53 OF 132

SHEET

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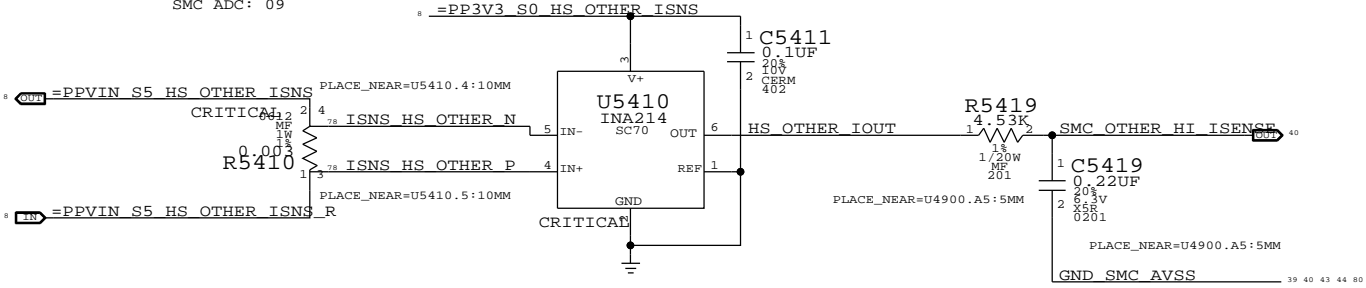
CPU High Side Current Sense (IC0R)

Gain: 50x, EDP: 17.4 A
Rsense: 0.003 (R5400)
V across Rsense: 52.2 mV
SMC ADC: 08



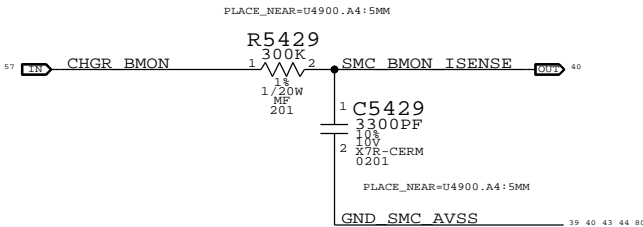
OTHER High Side Current Sense (IO0R)

Gain: 100x, EDP: 8.8 A
Rsense: 0.003 (R5410)
V across Rsense: 26.4 mV
SMC ADC: 09



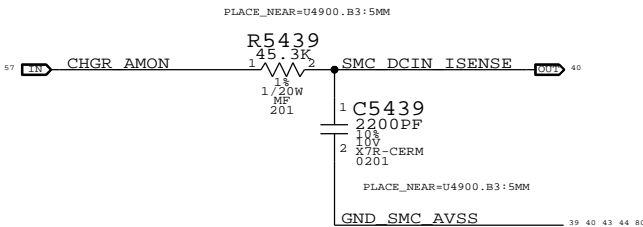
Charger (BMON Production) Current Sense (IPBR)

Charger Gain: 36x, EDP: 6.6 A
Rsense: 0.010 (R7050)
SMC ADC: 07



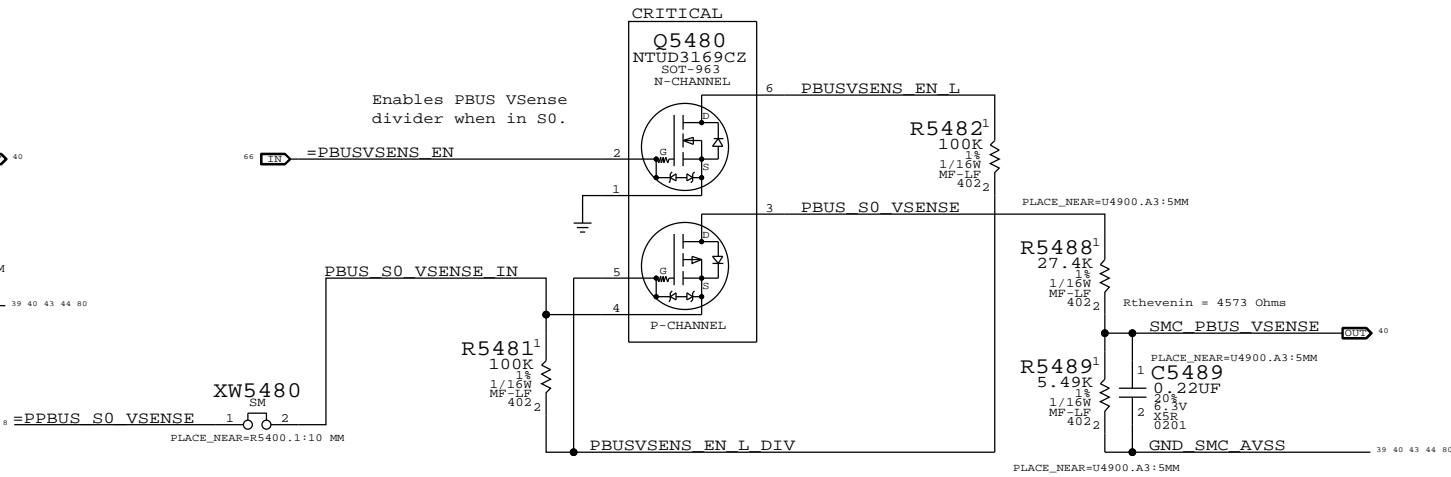
DC-In (AMON) Current Sense (ID0R)

Charger Gain: 20x, EDP: 4.6 A
Rsense: 0.020 (R7020)
SMC ADC: 04



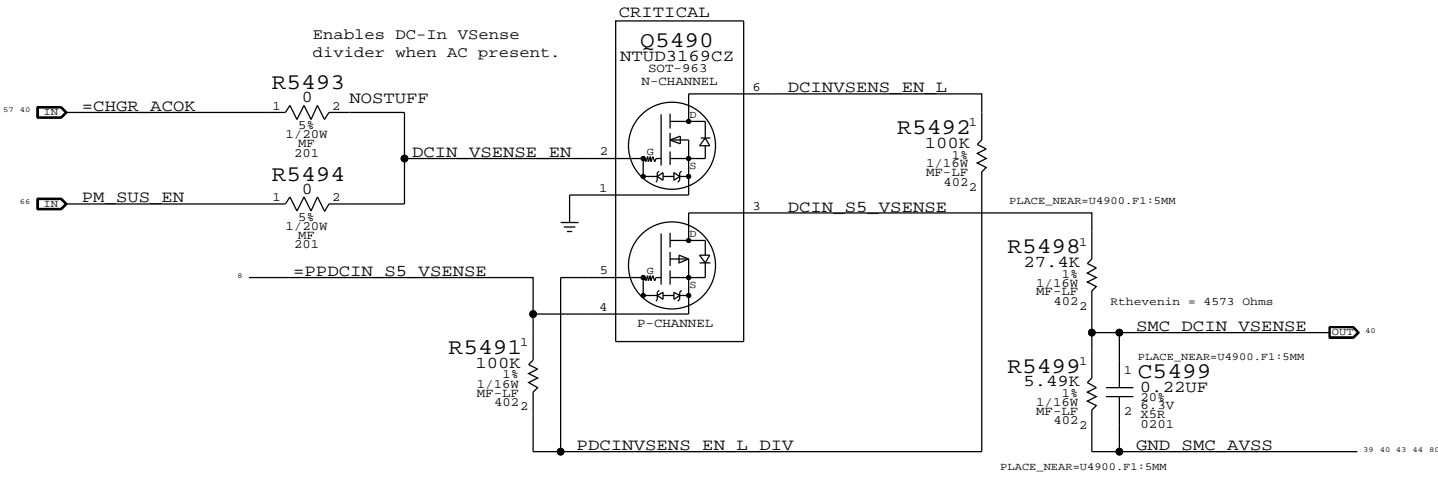
PBUS Voltage Sense & Enable (VP0R)


Gain: 0.167x
SMC ADC: 05



DC In Voltage Sense & Enable (VD0R)

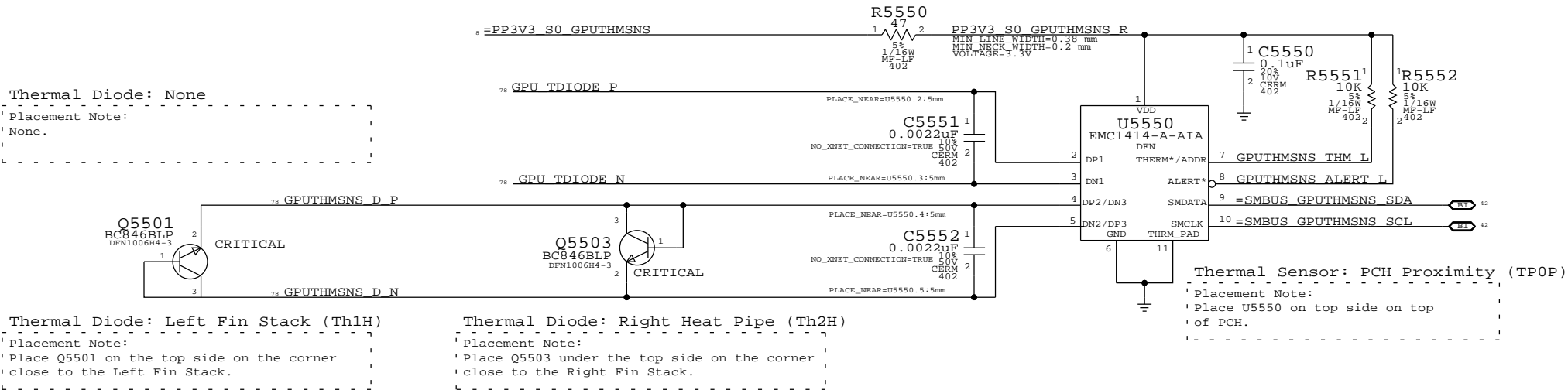
Gain: 0.167x
SMC ADC: 03



| | | | |
|---|--|----------------------|-----------|
| SYNC MASTER=D1 SENSORS | | SYNC DATE=02/20/2012 | |
| PAGE TITLE | | | |
| Power Sensor: High Side | | | |
|  | | DRAWING NUMBER | SIZE |
| Apple Inc. | | <SCH_NUM> | D |
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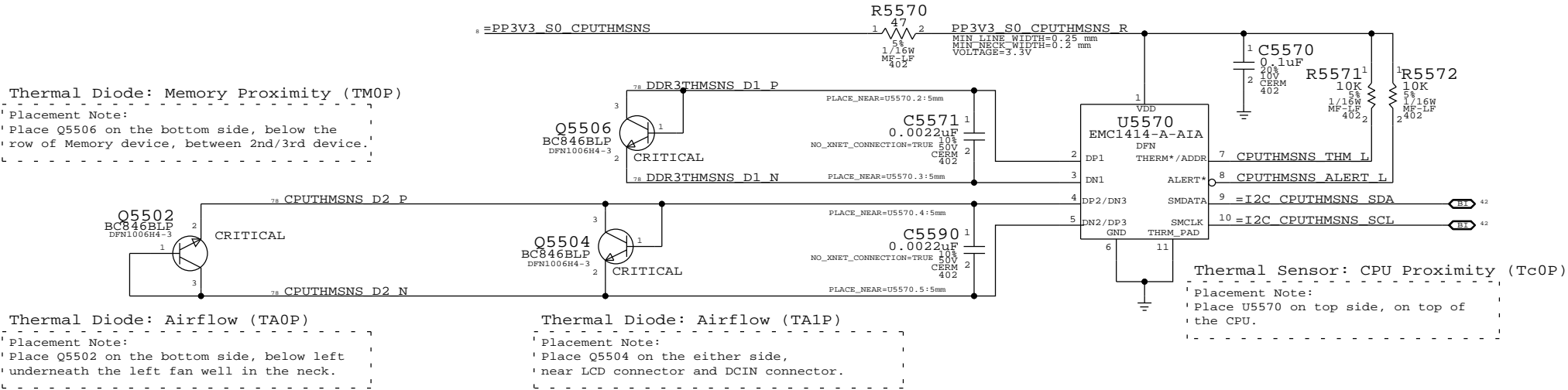
Thermal Sensor A:
PCH Proximity, Left Fin Pipe, Right Fin Stack

I2C Write: 0x98, I2C Read: 0x99

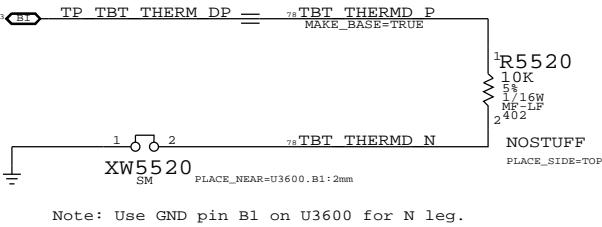



Thermal Sensor B:
CPU Proximity, Memory Proximity, Airflow

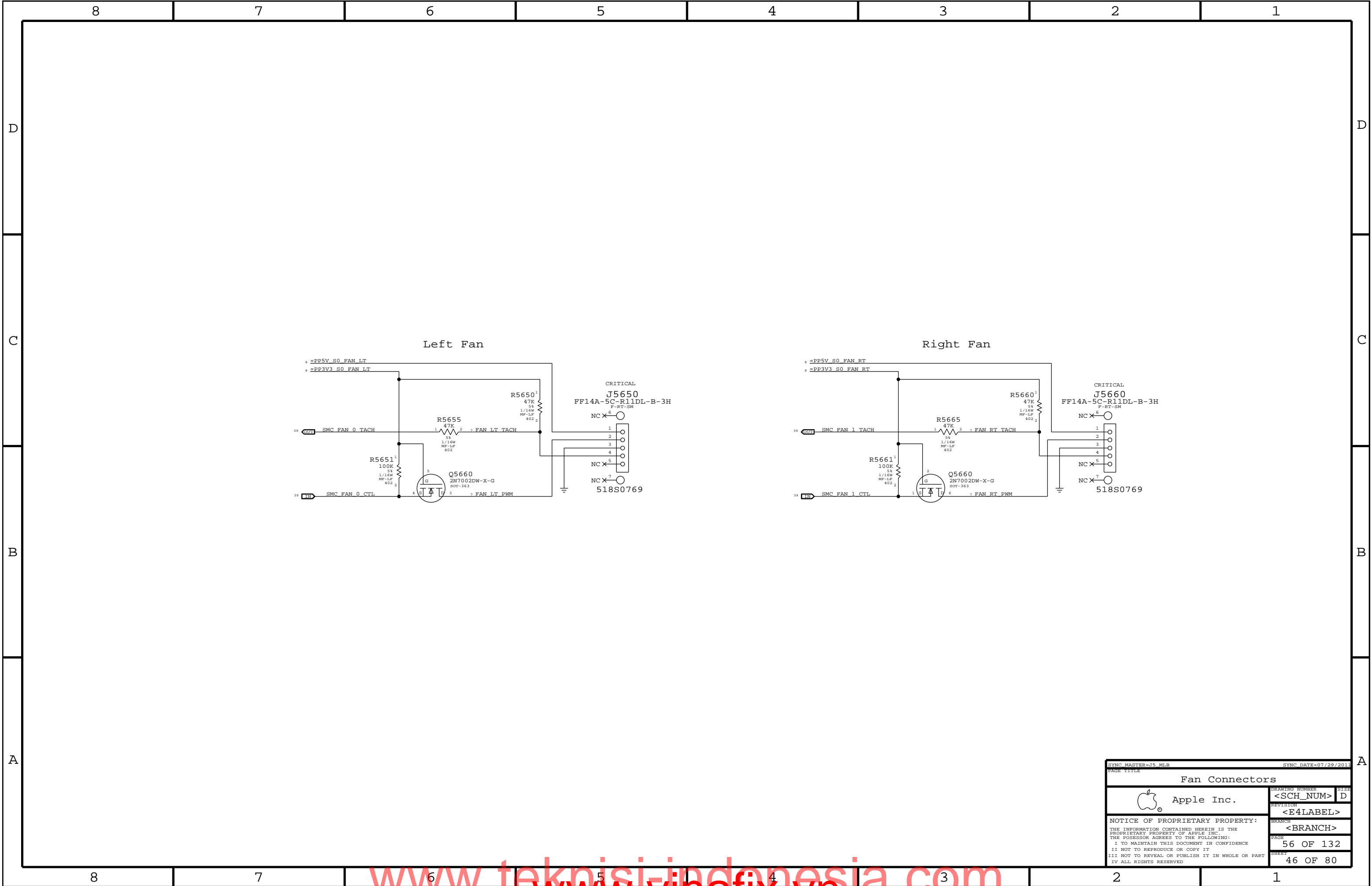
I2C Write: 0x98, I2C Read: 0x99

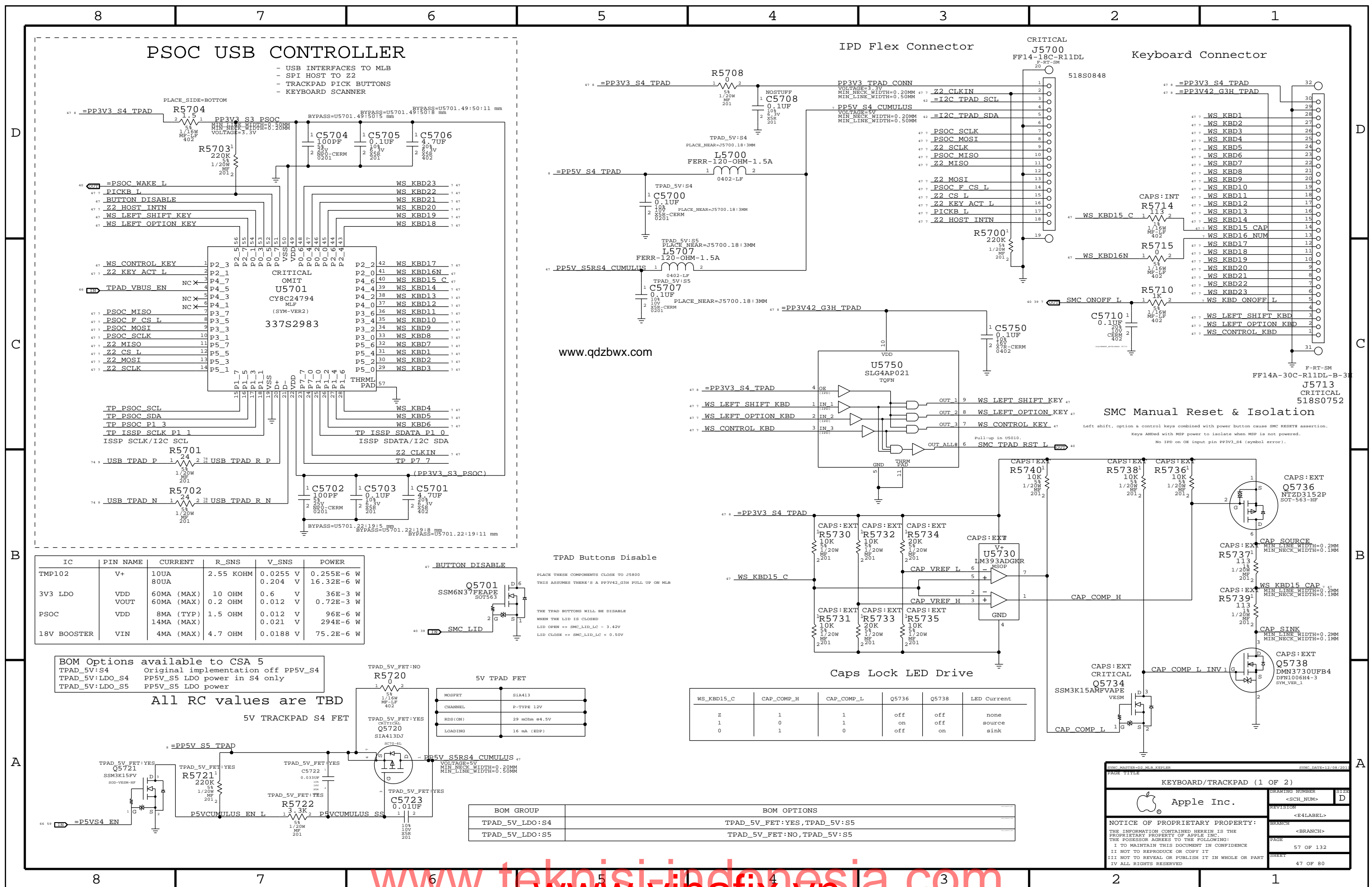


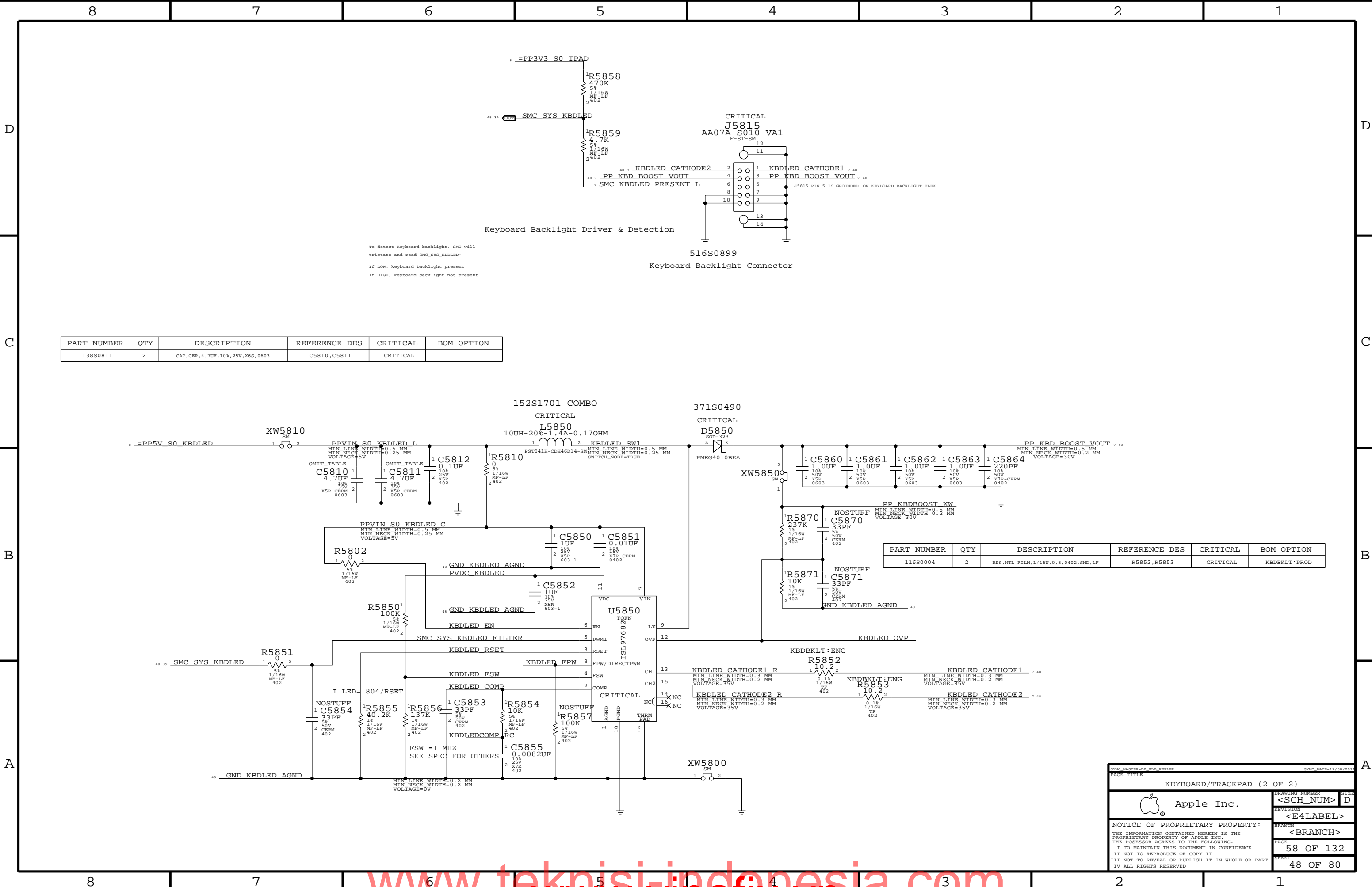
Thermal Sensor: T29 Die



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|--|--|----------------------|-----------|
| SYNC MASTER=D1 SENSORS | | SYNC DATE=02/20/2012 | |
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| Thermal Sensors | | | |
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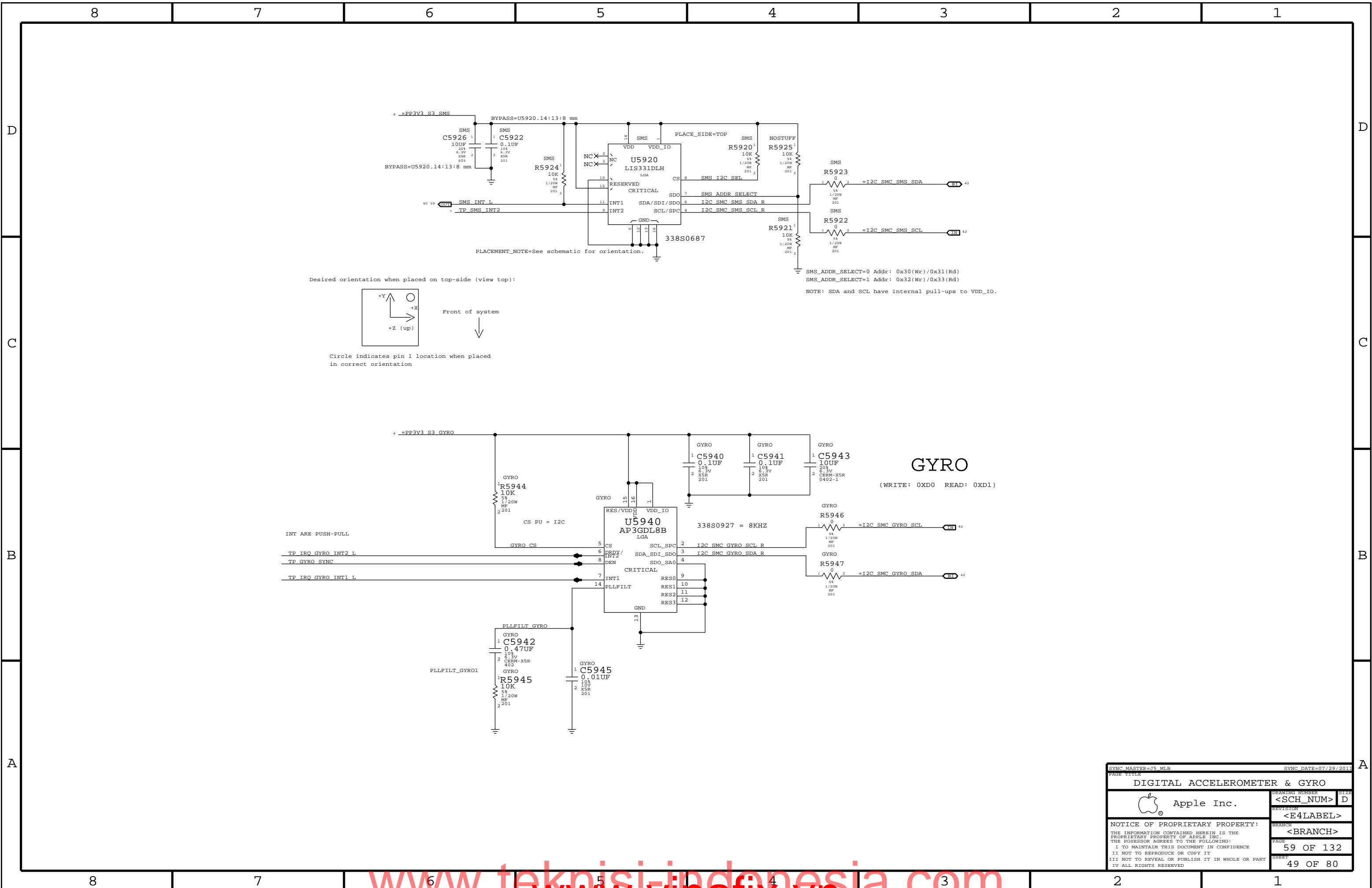





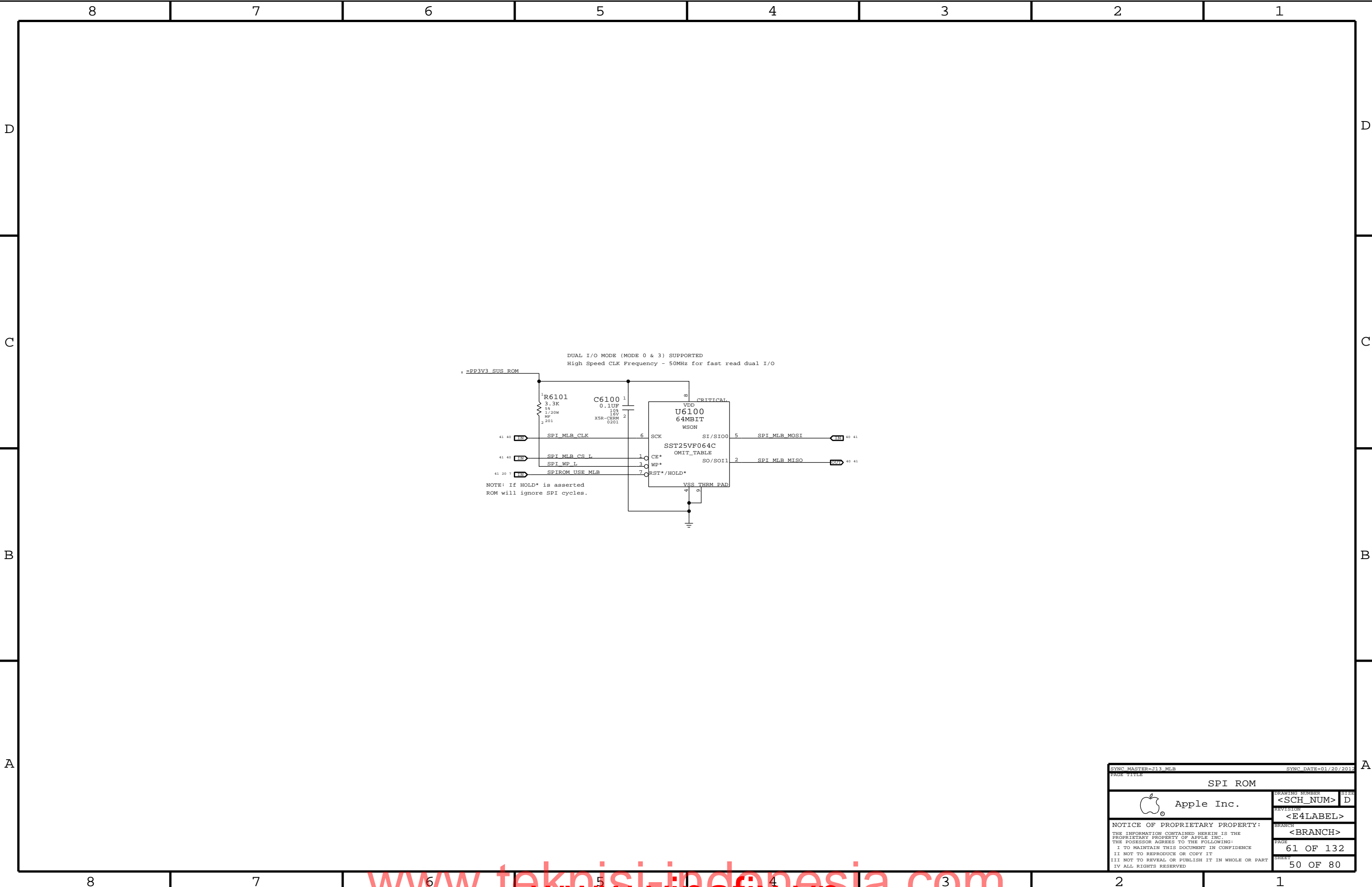
| PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION |
|-------------|-----|--------------------------------|---------------|----------|------------|
| 138S0811 | 2 | CAP,CER,4.7UF,10%,25V,X6S,0603 | C5810,C5811 | CRITICAL | |


| PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION |
|-------------|-----|------------------------------------|---------------|----------|--------------|
| 116S0004 | 2 | RES,MTL FILM,1/16W,0.5,0402,SMD,LF | R5852,R5853 | CRITICAL | KBDBKLT:PROD |

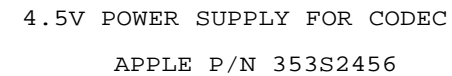
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| KEYBOARD/TRACKPAD (2 OF 2) | |
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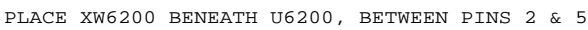
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|  Apple Inc. | | DRAWING NUMBER | SIZE |
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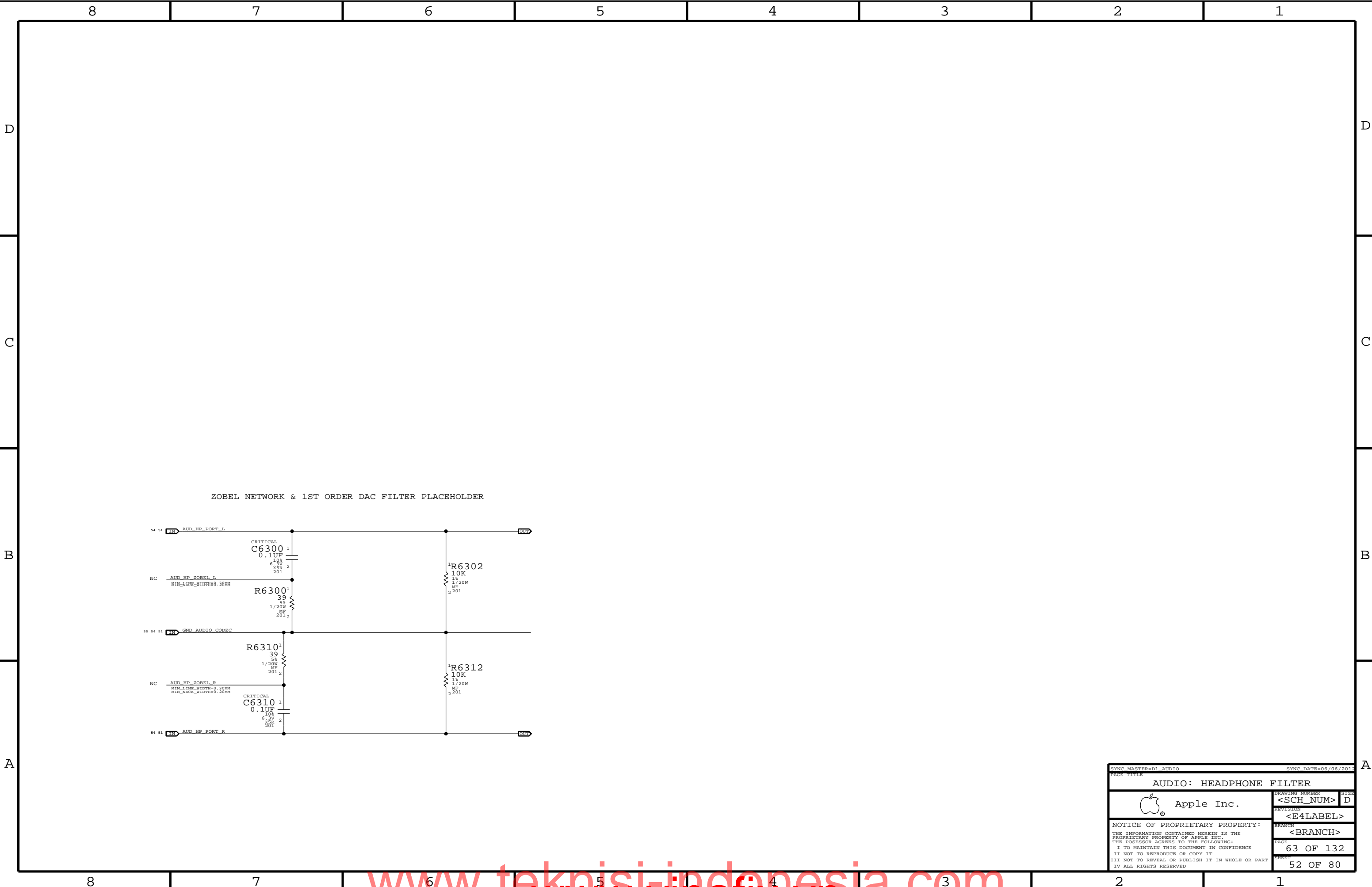
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| PAGE TITLE | | | |
| SPI ROM | | | |
|  Apple Inc. | | DRAWING NUMBER | SIZE |
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```
DIFF FSINPUT= 2.45VRMS
SE FSINPUT= 1.22VRMS
DAC1 FSOUTPUT= 1.34VRMS
DAC2/3 FSOUTPUTDIFF= 2.67VRMS
DAC2/3 FSOUTPUTSE= 1.34VRMS
```

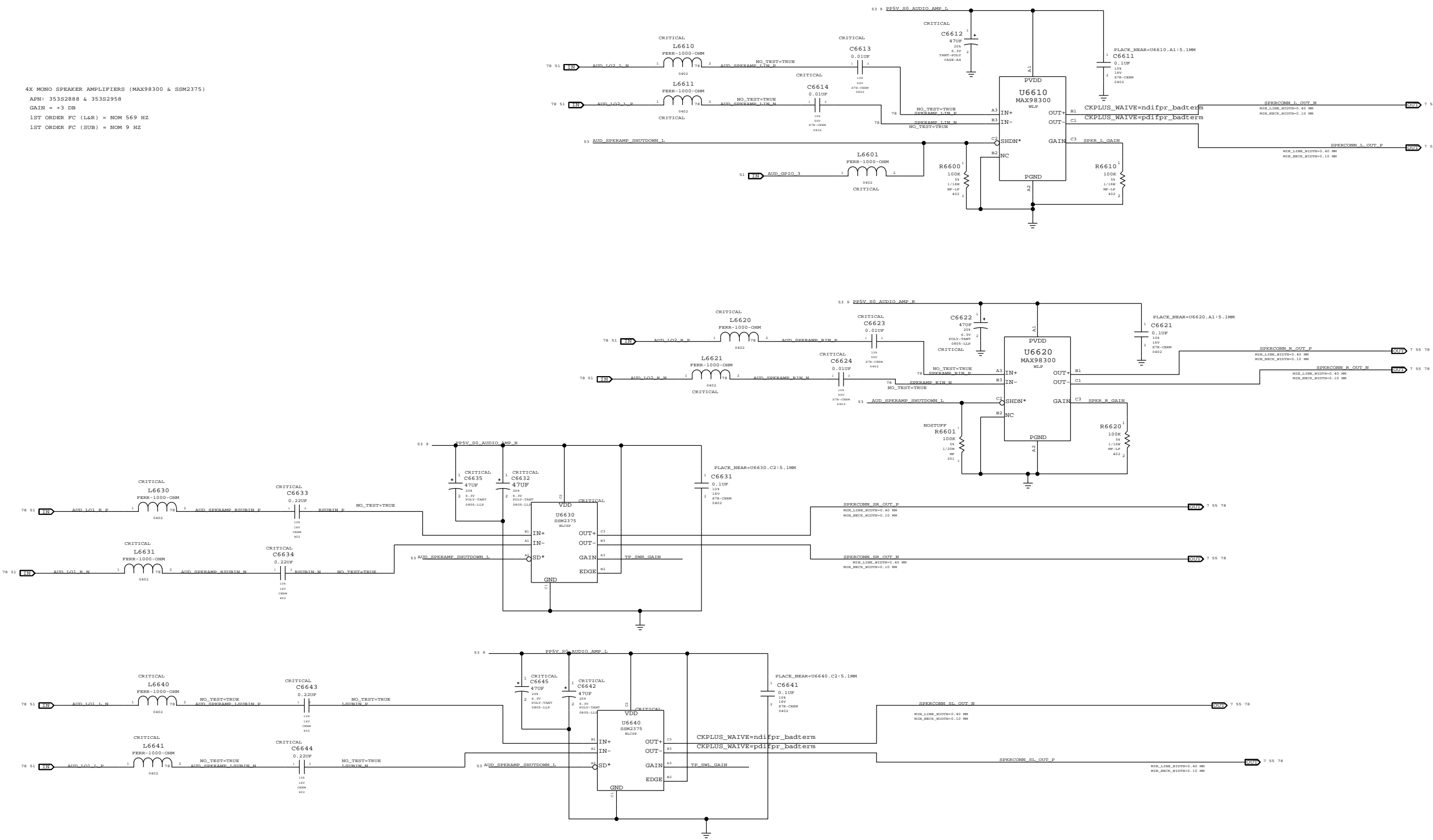


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|---|--|-----------------------------|-----------|
| SYNC MASTER=D1 AUDIO | | SYNC DATE=06/06/2012 | |
| PAGE TITLE | | | |
| AUDIO: CODEC/REGULATOR | | | |
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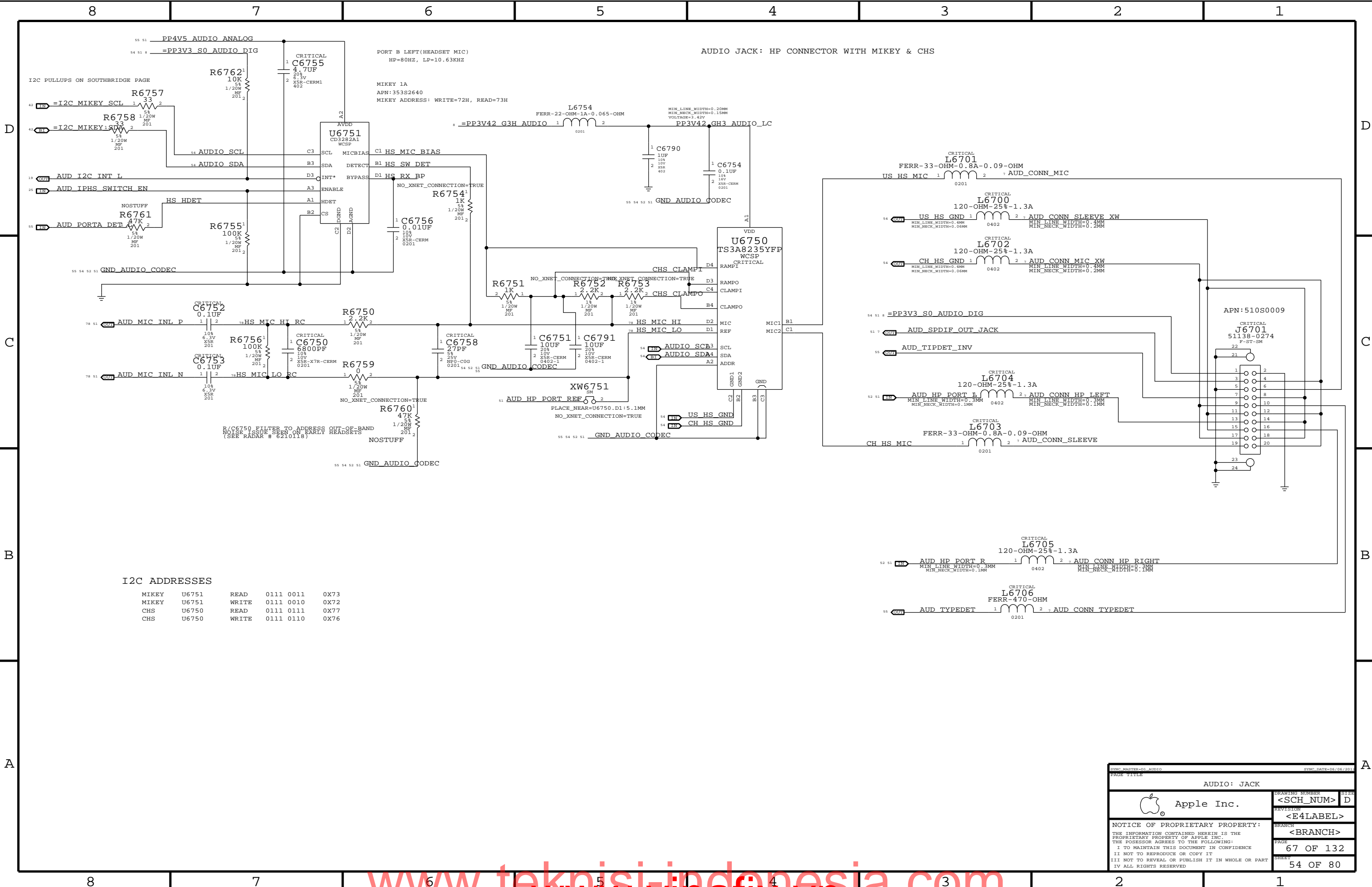


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|---|----------------|----------------------|-----------|
| SYNC MASTER=D1 AUDIO | | SYNC DATE=06/06/2012 | |
| PAGE TITLE | | | |
| AUDIO: HEADPHONE FILTER | | | |
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4X MONO SPEAKER AMPLIFIERS (MAX98300 & SSM2375)
APN: 35382888 & 35382958
GAIN = +3 DB
1ST ORDER FC (L&R) = NOM 569 HZ
1ST ORDER FC (SUB) = NOM 9 HZ



| | |
|---|--------------------|
| AUDIO: SPEAKER AMP | |
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I2C ADDRESSES

| | | | | |
|-------|-------|-------|-----------|------|
| MIKEY | U6751 | READ | 0111 0011 | 0X73 |
| MIKEY | U6751 | WRITE | 0111 0010 | 0X72 |
| CHS | U6750 | READ | 0111 0111 | 0X77 |
| CHS | U6750 | WRITE | 0111 0110 | 0X76 |

SYMC PARTS-01 AUDIO

SYMC DATE=05/05/2015

AUDIO: JACK

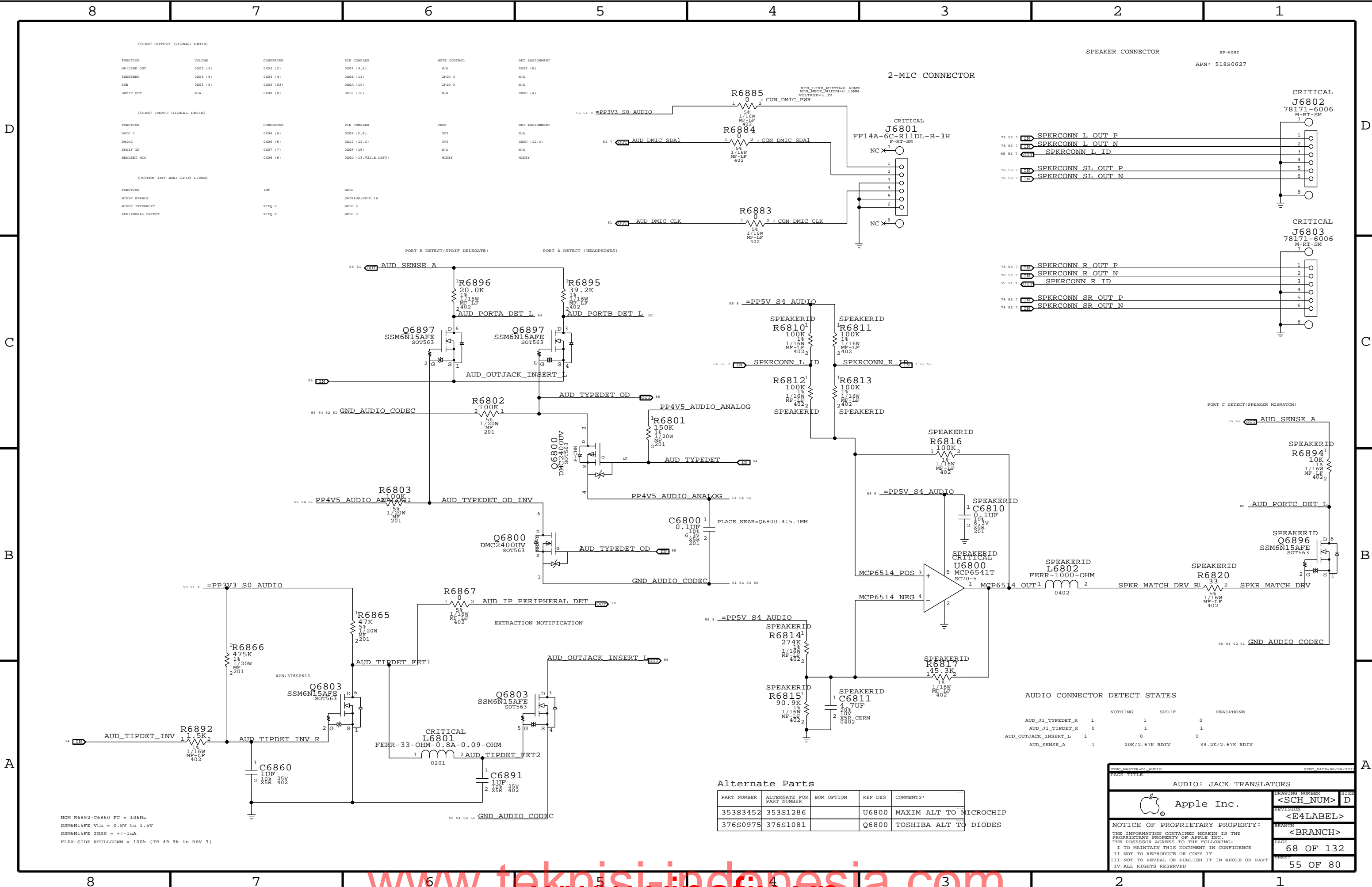
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D

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CODEC OUTPUT SIGNAL PATHS

| FUNCTION | VOLUME | CONVERTER | PIN COMPLEX | MUTE CONTROL | DET ASSIGNMENT |
|-------------|----------|-----------|-------------|--------------|----------------|
| HP/LINE OUT | OX02 (2) | OX02 (2) | OX09 (9,A) | N/A | OX09 (B) |
| TWEETERS | OX04 (4) | OX04 (4) | OX0B (11) | GPIO_3 | N/A |
| SUB | OX03 (3) | OX03 (03) | OX0A (10) | GPIO_3 | N/A |
| SPDIF OUT | N/A | OX08 (8) | OX10 (16) | N/A | OX0C (A) |

CODEC INPUT SIGNAL PATHS

| FUNCTION | CONVERTER | PIN COMPLEX | VREF | DET ASSIGNMENT |
|-------------|-----------|----------------------|-------|----------------|
| DMIC 1 | OX06 (6) | OX0E (D,E) | 3V3 | N/A |
| DMIC2 | OX05 (5) | OX12 (12,C) | 3V3 | OX0C (12,C) |
| SPDIF IN | OX07 (7) | OX0F (15) | N/A | N/A |
| HEADSET MIC | OX06 (6) | OX0D (13,V22,B,LEFT) | MIKEY | MIKEY |

SYSTEM INT AND GPIO LINES

| FUNCTION | INT | GPIO |
|-------------------|--------|-----------------|
| MIKEY ENABLE | PIRQ W | SATAAGP/GPIO 16 |
| MIKEY INTERRUPT | PIRQ W | GPIO 5 |
| PERIPHERAL DETECT | PIRQ F | GPIO 3 |

SPEAKER CONNECTOR

HP=80HZ

APN: 518S0627

2-MIC CONNECTOR

CRITICAL

J6802

78171-6006

M-RT-SM

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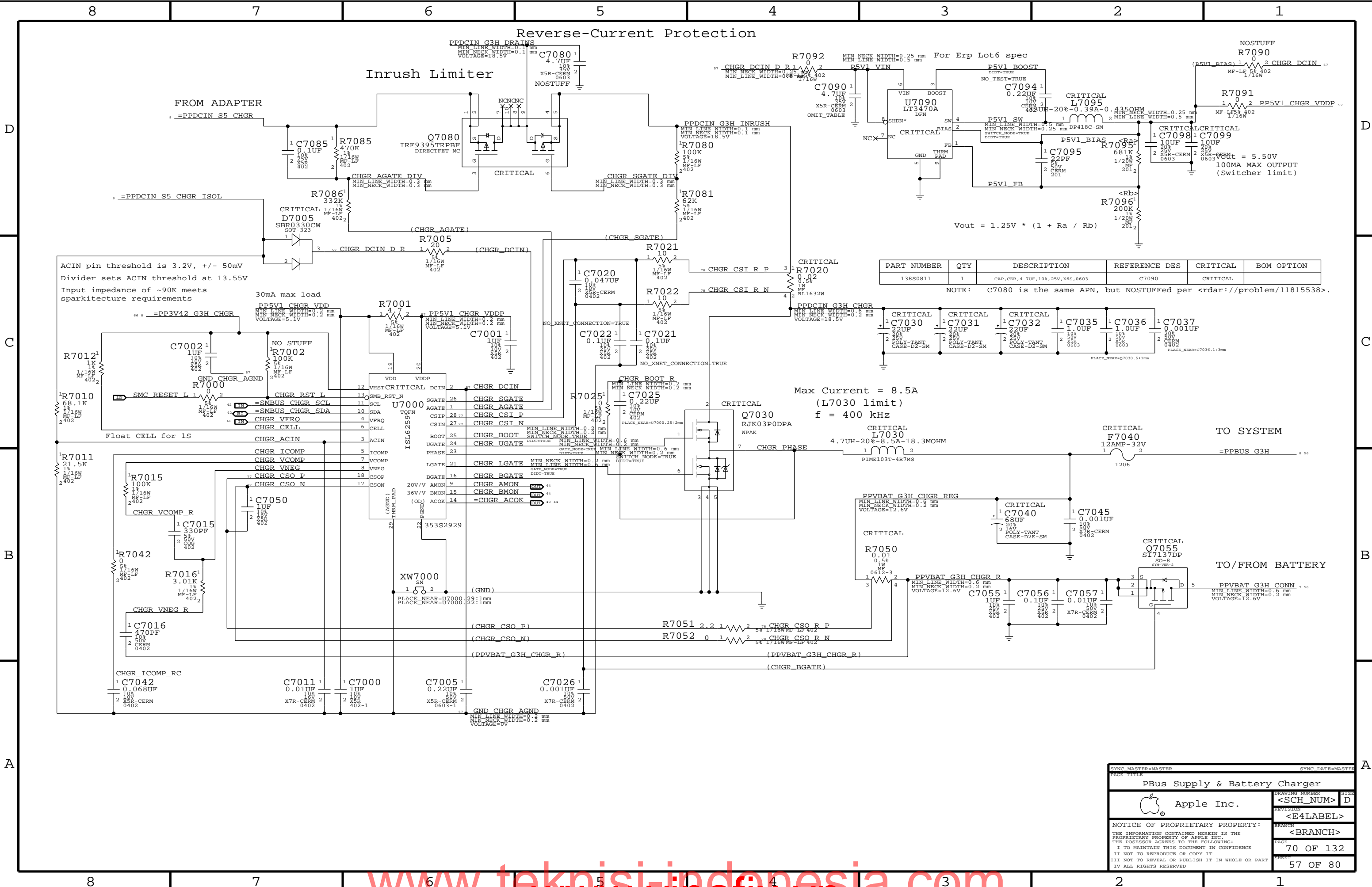
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| PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION |
|-------------|-----|--------------------------------------|---------------|----------|------------|
| 138S0811 | 1 | CAP, CER, 4.7UF, 10%, 25V, X6S, 0603 | C7090 | CRITICAL | |

NOTE: C7080 is the same APN, but NOSTUFFed per <rdar://problem/11815538>.

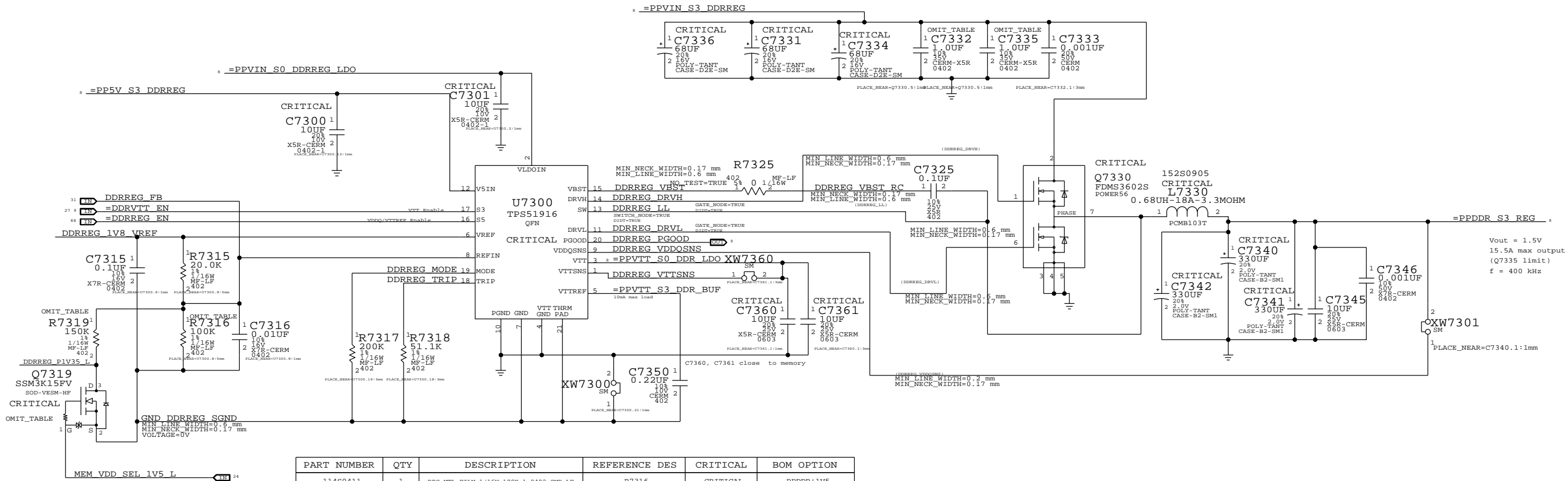
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| PBus Supply & Battery Charger | | DRAWING NUMBER | |
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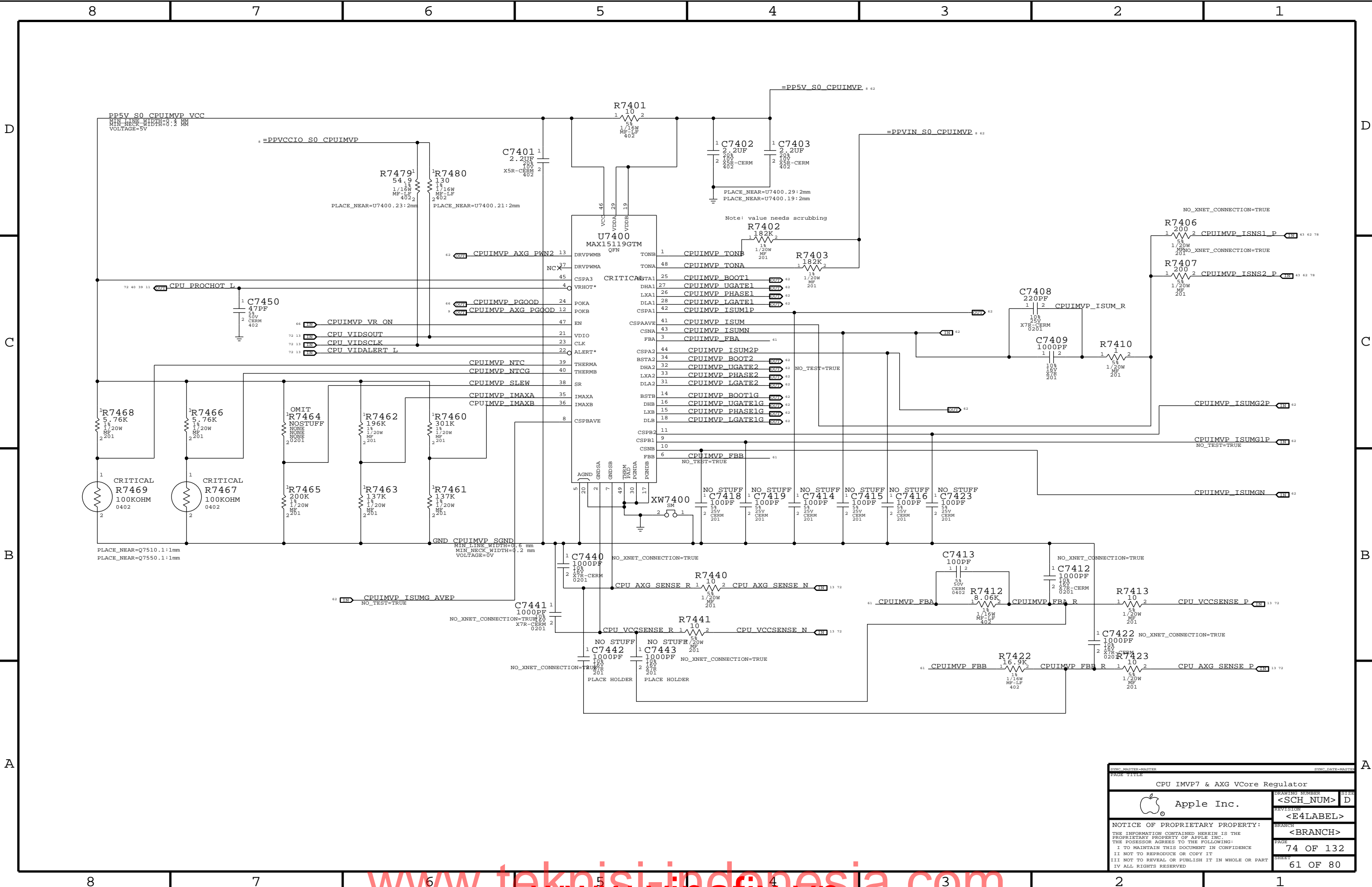
| PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION |
|-------------|-----|-------------------------------------|---------------|----------|------------|
| 138S0812 | 2 | CAP,CER,1UF,10%,35V,X5R,0402,MURATA | C7332,C7335 | CRITICAL | |


DDR3 (1V5R1V35 S3) REGULATOR



| PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION |
|-------------|-----|---|---------------|----------|------------|
| 114S0411 | 1 | RES,MTL FILM,1/16W,100K,1,0402,SMD,LF | R7316 | CRITICAL | PPDDR:1V5 |
| 114S0391 | 1 | RES,MTL FILM,1/16W,50.4K,1,0402,SMD,LF | R7316 | CRITICAL | PPDDR:1V35 |
| 376S0612 | 1 | MOSFET,N-CH,30V,100MA,7.0OHM,SOT-723,HF | Q7319 | CRITICAL | PPDDR:1V5 |
| 114S0428 | 1 | RES, MTL FILM,1/16W,150K,0402,SMD,LF | R7319 | CRITICAL | PPDDR:1V5 |

| | | | |
|---|------------|------------------|-----------|
| SYMC MASTER-MASTER | | SYMC DATE-MASTER | |
| PAGE TITLE | | | |
| 1.5V DDR3 Supply | | | |
|  | Apple Inc. | DRAWING NUMBER | SIZE |
| | | <SCH_NUM> | D |
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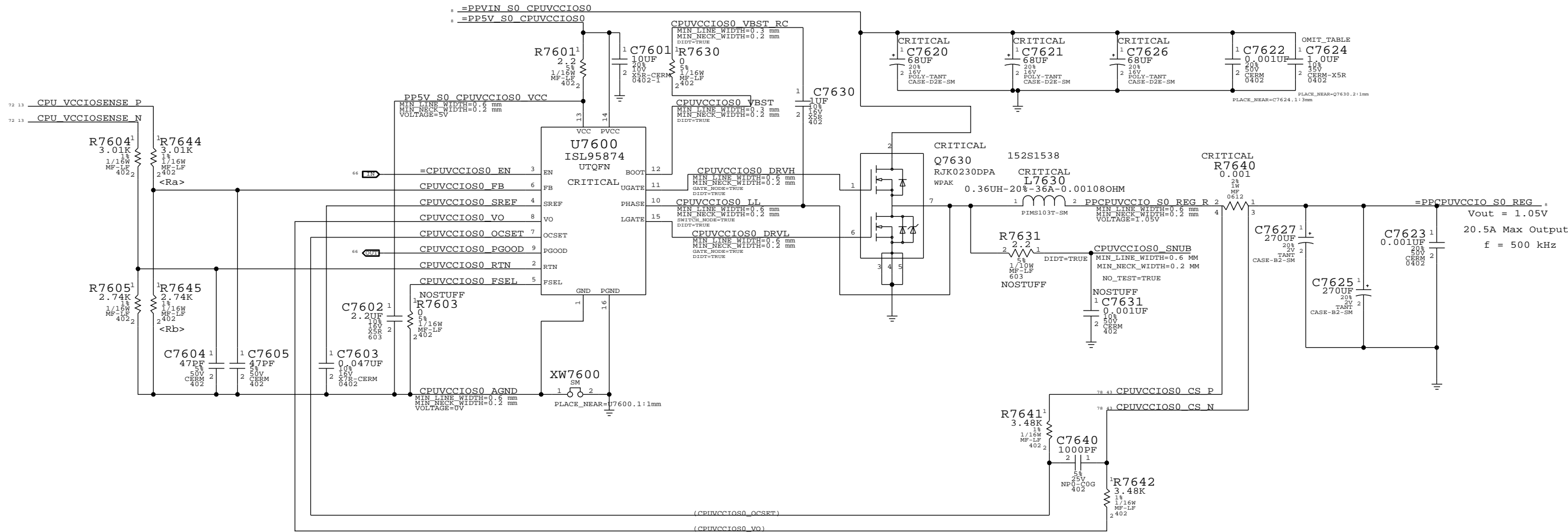


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| SYMC MASTER-MASTER | | SYMC DATE-MASTER | |
| PAGE TITLE | | | |
| CPU IMVP7 & AXG VCore Regulator | | | |
|  Apple Inc. | | DRAWING NUMBER | SIZE |
| | | <SCH_NUM> | D |
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| | | <BRANCH> | |
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| | | SHEET | 61 OF 80 |
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CPU VCCIO (1.05V S0) Regulator

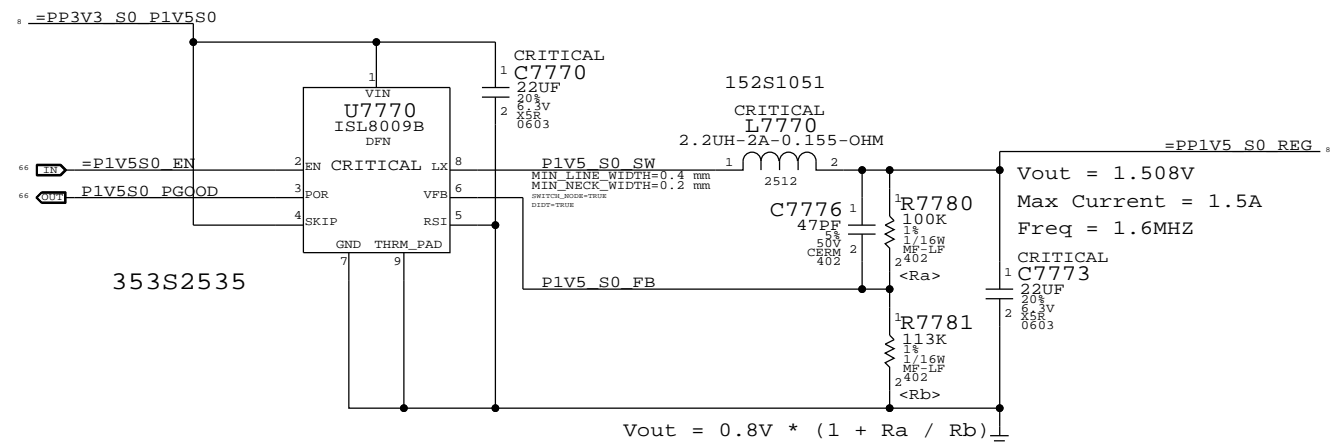
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|-------------|-----|-------------------------------------|---------------|----------|------------|
| 138S0812 | 1 | CAP,CER,1UF,10%,35V,X6S,0402,MURATA | C7624 | CRITICAL | |



$$OCP = R7641 \times 8.5\mu A / R7640$$
$$OCP = 26.265A$$
$$Vout = 0.5V * (1 + Ra / Rb)$$

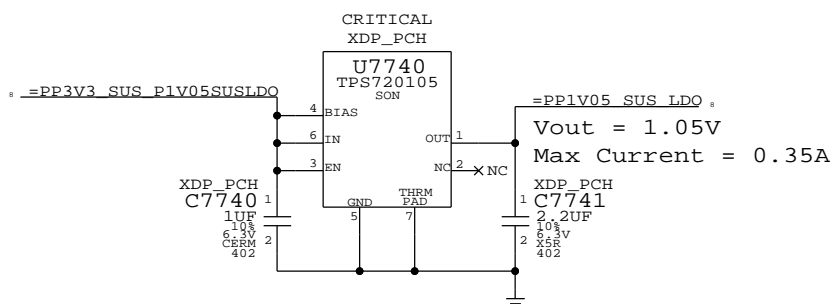
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| CPUVCCIO (1.05V) Power Supply | | | |
|  | | Apple Inc. | |
| DRAWING NUMBER | | SIZE | |
| <SCH_NUM> | | D | |
| REVISION | | BRANCH | |
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| PAGE | | SHEET | |
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1.5V S0 Switcher

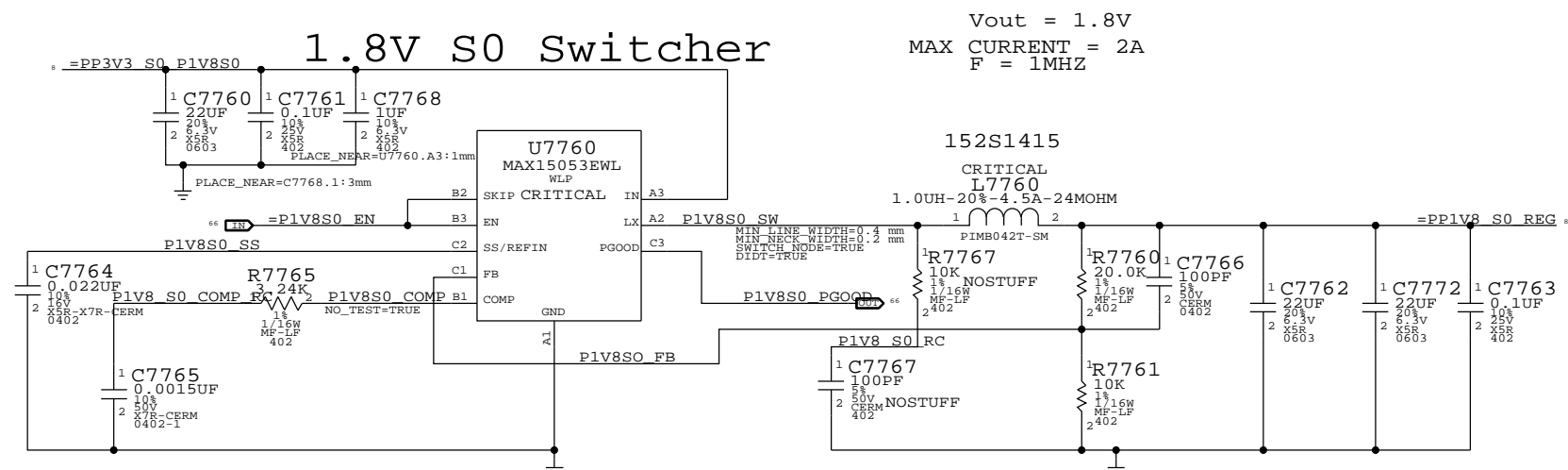


1.05V SUS LDO

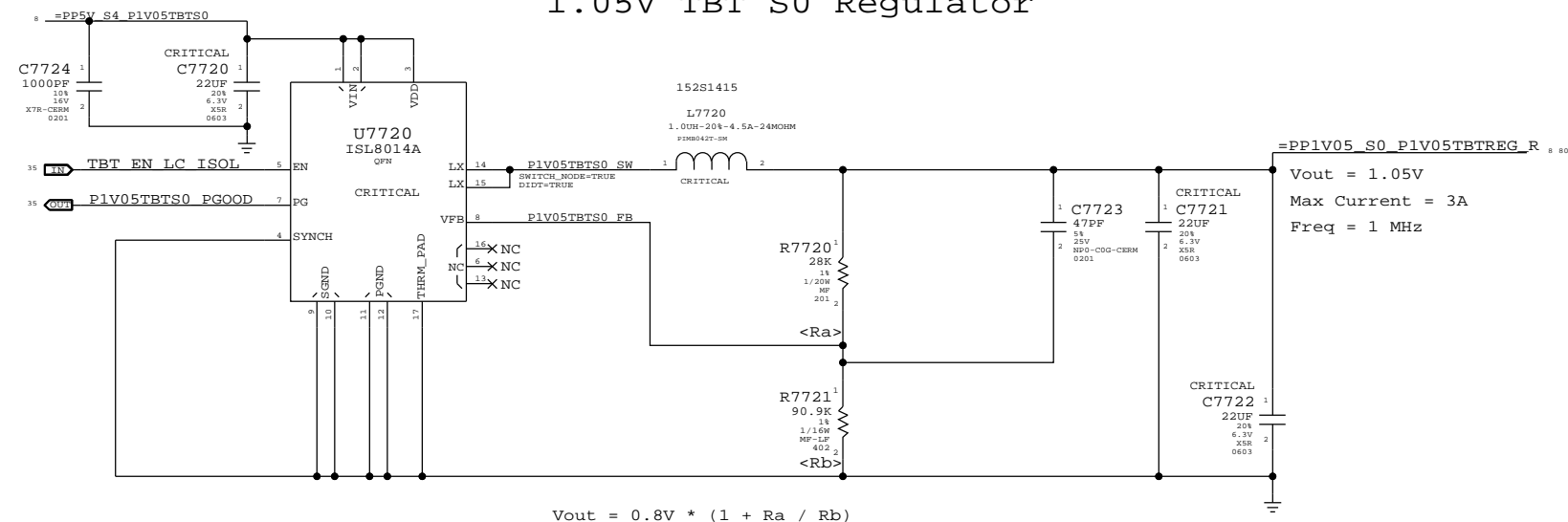
Cougar Point requires JTAG pull-ups to be powered at 1.05V in SUS. Pull-ups (3) must be 51 ohms to support XDP (not required in production). 70mA is required to support pull-ups. Alternative is strong voltage dividers (200/100) to 3.3V S5, which burns 100mW in all S-states.



1.8V S0 Switcher

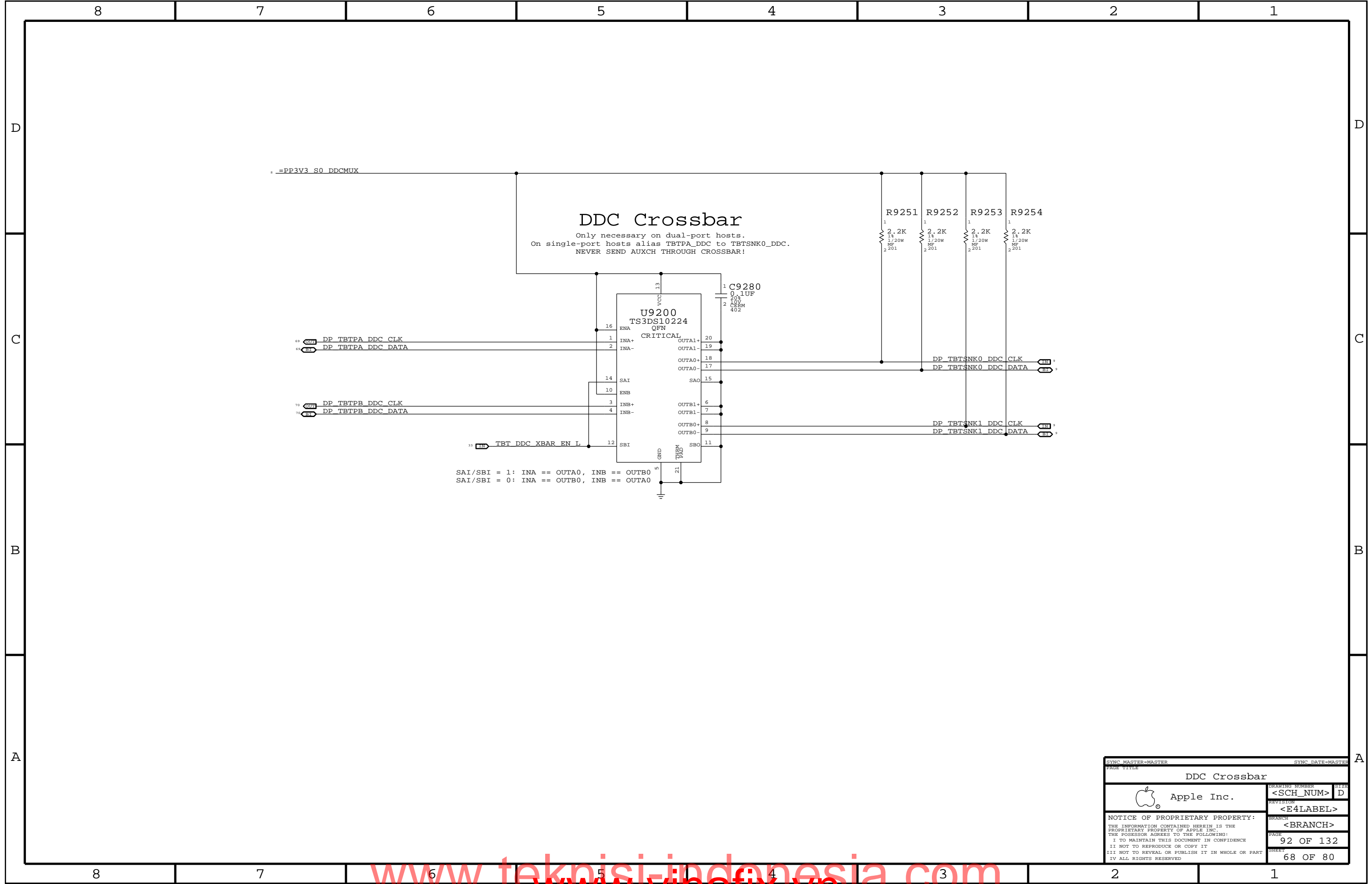



1.05V TBT S0 Regulator



| | | | |
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| PAGE TITLE | | DRAWING NUMBER | |
| Misc Power Supplies | | <SCH_NUM> D | |
| Apple Inc. | | REVISION | |
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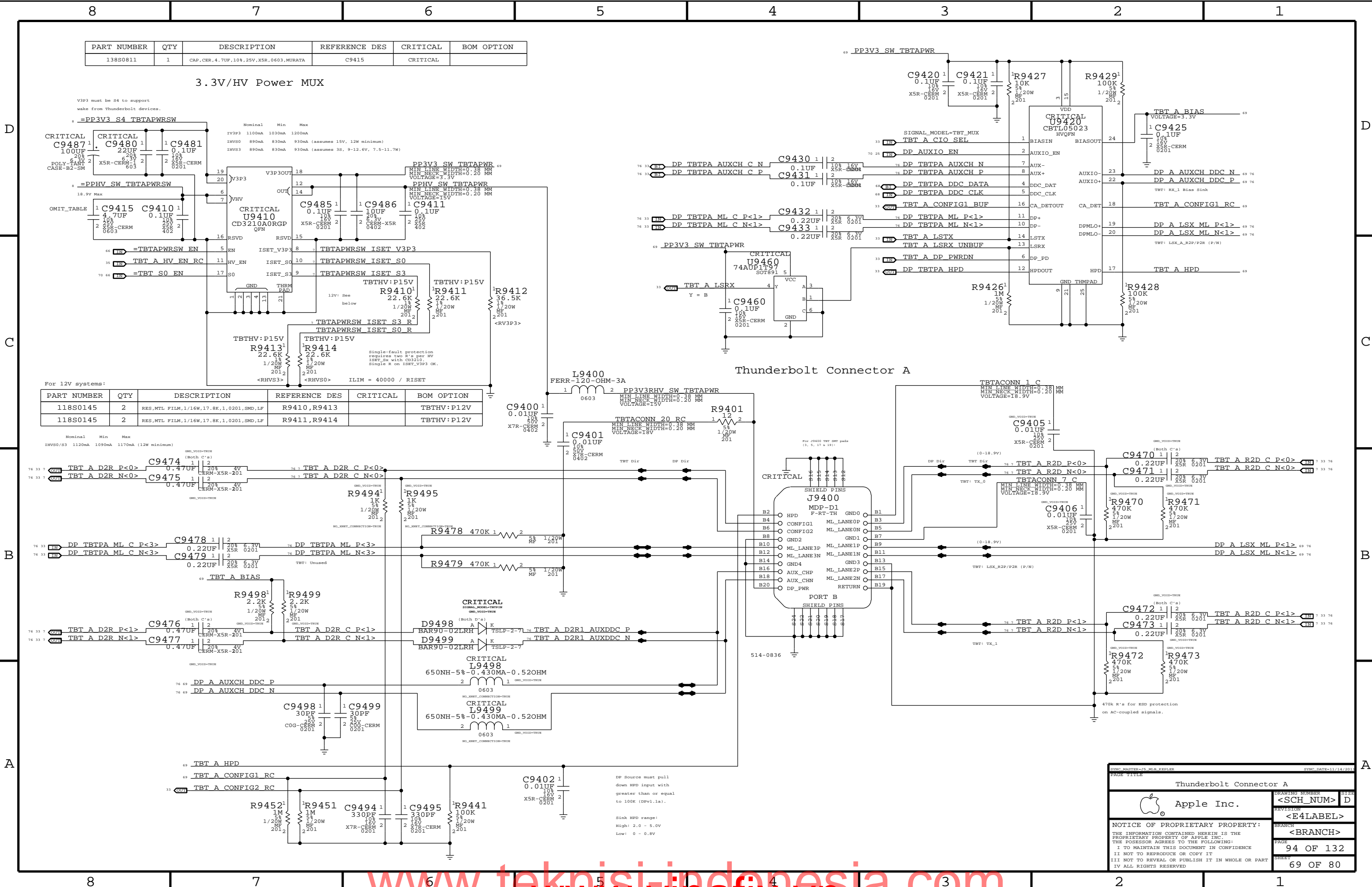
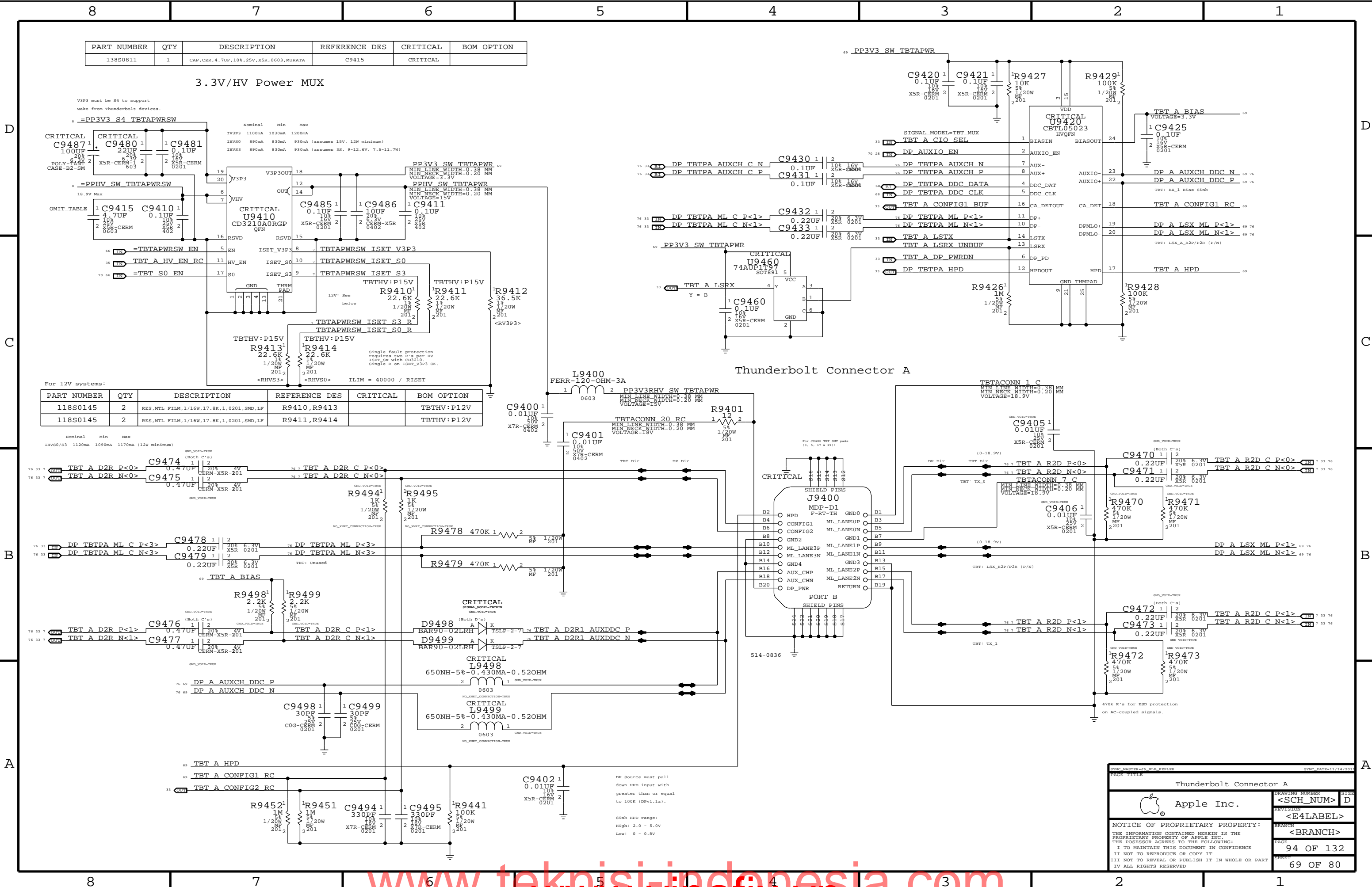
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| PAGE TITLE | | | |
| DDC Crossbar | | | |
|  Apple Inc. | DRAWING NUMBER | | SIZE |
| | <SCH_NUM> | | D |
| | REVISION | | |
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| | <BRANCH> | | |
| | PAGE | | 92 OF 132 |
| SHEET | | 68 OF 80 | |

The diagram illustrates the internal circuitry of a Thunderbolt Connector A. It is divided into several functional blocks:

- 3.3V/HV Power MUX:** Manages power switching between 3.3V and high voltage (HV) using components like C9480, C9481, C9415, C9410, and U9410.
- Signal MUX:** Routes signals between different ports using components like C9420, C9421, R9427, R9429, and U9420.
- Thunderbolt Connector A:** The central interface with pins for DP, AUX, and HPD, featuring components like L9400, C9400, C9401, R9401, and J9400.
- DP Source and Sink:** Includes DP source and sink drivers (D9498, D9499) and associated resistors (R9494, R9495, R9496, R9497, R9498, R9499).
- HPD and Config:** Handles Hot Plug Detect (HPD) and configuration signals using components like C9402, R9451, C9494, C9495, and R9441.

The diagram also includes a table of component values and a list of part numbers and quantities.

| PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION |
|-------------|-----|--|---------------|----------|------------|
| 138S0811 | 1 | CAP, CER, 4.7UF, 10%, 25V, X5R, 0603, MURATA | C9415 | CRITICAL | |



3.3V/HV Power MUX

V3P3 must be 84 to support wake from Thunderbolt devices.

Signal MUX

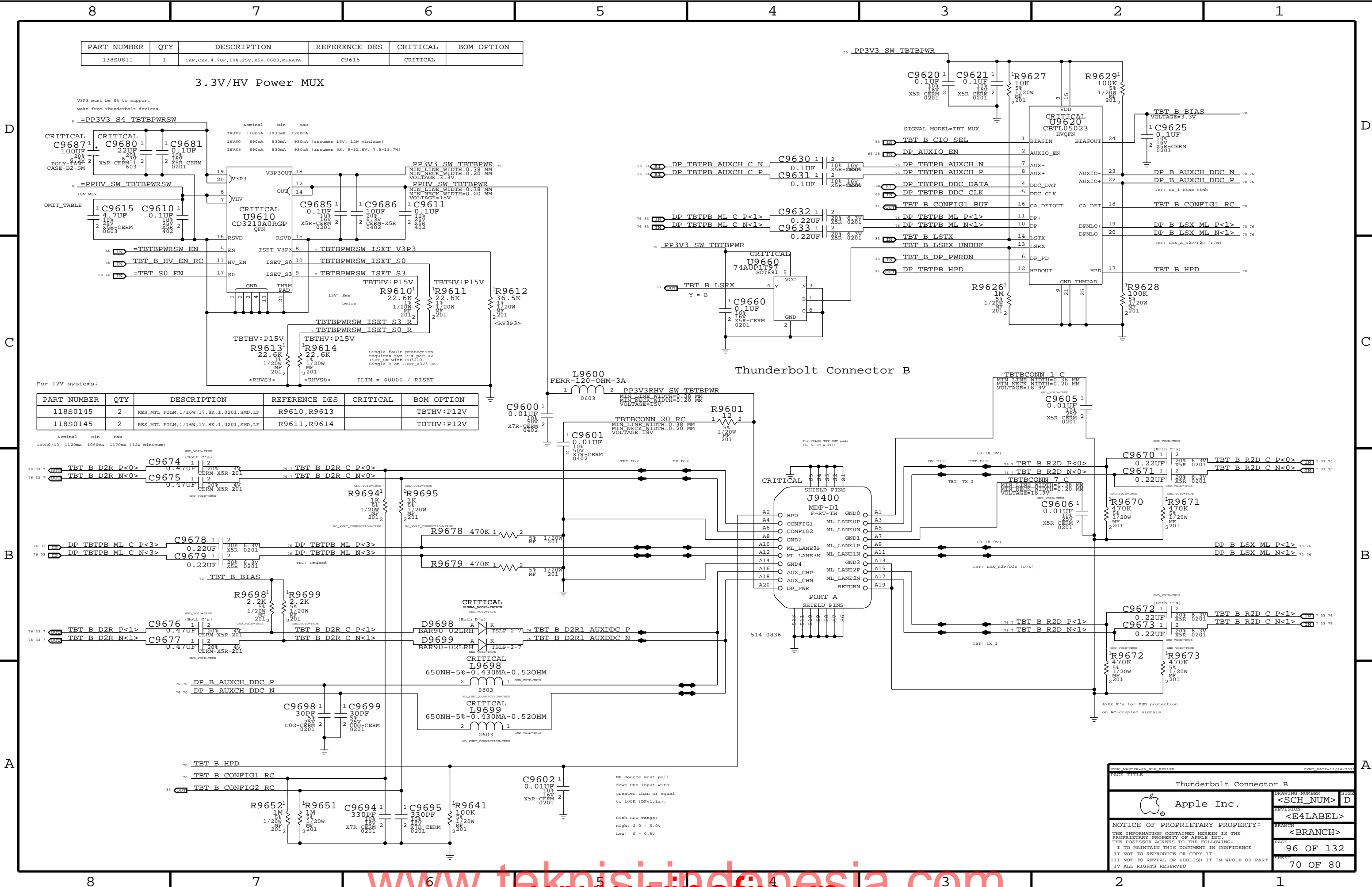
Thunderbolt Connector A

Component List:

| PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION |
|-------------|-----|---|---------------|----------|------------|
| 138S0811 | 1 | CAP, CER, 4.7UF, 10%, 25V, X5R, 0603, MURATA | C9415 | CRITICAL | |
| 118S0145 | 2 | RES, MTL FILM, 1/16W, 17.8K, 1, 0201, SMD, LF | R9410, R9413 | | TBTHV:P12V |
| 118S0145 | 2 | RES, MTL FILM, 1/16W, 17.8K, 1, 0201, SMD, LF | R9411, R9414 | | TBTHV:P12V |

Notes:

- DP Source must pull down HPD input with greater than or equal to 100K (DPv1.1a).
- Sink HPD range: High: 2.0 - 5.0V, Low: 0 - 0.9V



8 7 6 5 4 3 2 1

| PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION |
|-------------|-----|---------------------------------------|---------------|----------|------------|
| 138S0811 | 1 | CAP,CER,4.7UF,10%,25V,X5R,0603,MURATA | C9615 | CRITICAL | |

3.3V/HV Power MUX

V3P3 must be S4 to support wake from Thunderbolt devices.

=PP3V3 S4 TBTBPWRSW

| Nominal | Min | Max |
|--------------|--------|--|
| IV3P3 1100mA | 1030mA | 1200mA |
| IHV50 890mA | 830mA | 930mA (assumes 15V, 12W minimum) |
| IHV53 890mA | 830mA | 930mA (assumes 3S, 9-12.6V, 7.5-11.7W) |

CRITICAL C9687 100UF 1 20V 10% X5R-CERM 0603

CRITICAL C9680 22UF 1 20V 10% X5R-CERM 0603

CRITICAL C9681 0.1UF 1 16V 10% X5R-CERM 0201

CRITICAL C9615 4.7UF 1 25V 10% X5R-CERM 0603

CRITICAL C9610 0.1UF 1 10V 10% X5R-CERM 0402

CRITICAL U9610 CD3210AORGP QFN

CRITICAL C9685 0.1UF 1 16V 10% X5R-CERM 0201

CRITICAL C9686 10UF 1 20V 10% X5R-CERM 0402

CRITICAL C9611 0.1UF 1 16V 10% X5R-CERM 0201

CRITICAL C9612 22.6K 1 1/20W 5% MF 201

CRITICAL C9613 22.6K 1 1/20W 5% MF 201

CRITICAL C9614 22.6K 1 1/20W 5% MF 201

CRITICAL C9615 22.6K 1 1/20W 5% MF 201

CRITICAL C9616 22.6K 1 1/20W 5% MF 201

CRITICAL C9617 22.6K 1 1/20W 5% MF 201

CRITICAL C9618 22.6K 1 1/20W 5% MF 201

CRITICAL C9619 22.6K 1 1/20W 5% MF 201

CRITICAL C9620 22.6K 1 1/20W 5% MF 201

CRITICAL C9621 22.6K 1 1/20W 5% MF 201

CRITICAL C9622 22.6K 1 1/20W 5% MF 201

CRITICAL C9623 22.6K 1 1/20W 5% MF 201

CRITICAL C9624 22.6K 1 1/20W 5% MF 201

CRITICAL C9625 22.6K 1 1/20W 5% MF 201

CRITICAL C9626 22.6K 1 1/20W 5% MF 201

CRITICAL C9627 22.6K 1 1/20W 5% MF 201

CRITICAL C9628 22.6K 1 1/20W 5% MF 201

CRITICAL C9629 22.6K 1 1/20W 5% MF 201

| PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION |
|-------------|-----|--|---------------|----------|------------|
| 118S0145 | 2 | RES,MTL FILM,1/16W,17.8K,1,0201,SMD,LF | R9610,R9613 | | TBTHV:P12V |
| 118S0145 | 2 | RES,MTL FILM,1/16W,17.8K,1,0201,SMD,LF | R9611,R9614 | | TBTHV:P12V |

Thunderbolt Connector B

For 12V systems:

CRITICAL C9600 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9601 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9602 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9603 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9604 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9605 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9606 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9607 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9608 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9609 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9610 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9611 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9612 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9613 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9614 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9615 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9616 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9617 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9618 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9619 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9620 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9621 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9622 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9623 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9624 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9625 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9626 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9627 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9628 0.01UF 1 10V 10% X7R-CERM 0402

| PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION |
|-------------|-----|--|---------------|----------|------------|
| 118S0145 | 2 | RES,MTL FILM,1/16W,17.8K,1,0201,SMD,LF | R9610,R9613 | | TBTHV:P12V |
| 118S0145 | 2 | RES,MTL FILM,1/16W,17.8K,1,0201,SMD,LF | R9611,R9614 | | TBTHV:P12V |

Thunderbolt Connector B

For 12V systems:

CRITICAL C9600 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9601 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9602 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9603 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9604 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9605 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9606 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9607 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9608 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9609 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9610 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9611 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9612 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9613 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9614 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9615 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9616 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9617 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9618 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9619 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9620 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9621 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9622 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9623 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9624 0.01UF 1 10V 10% X7R-CERM 0402

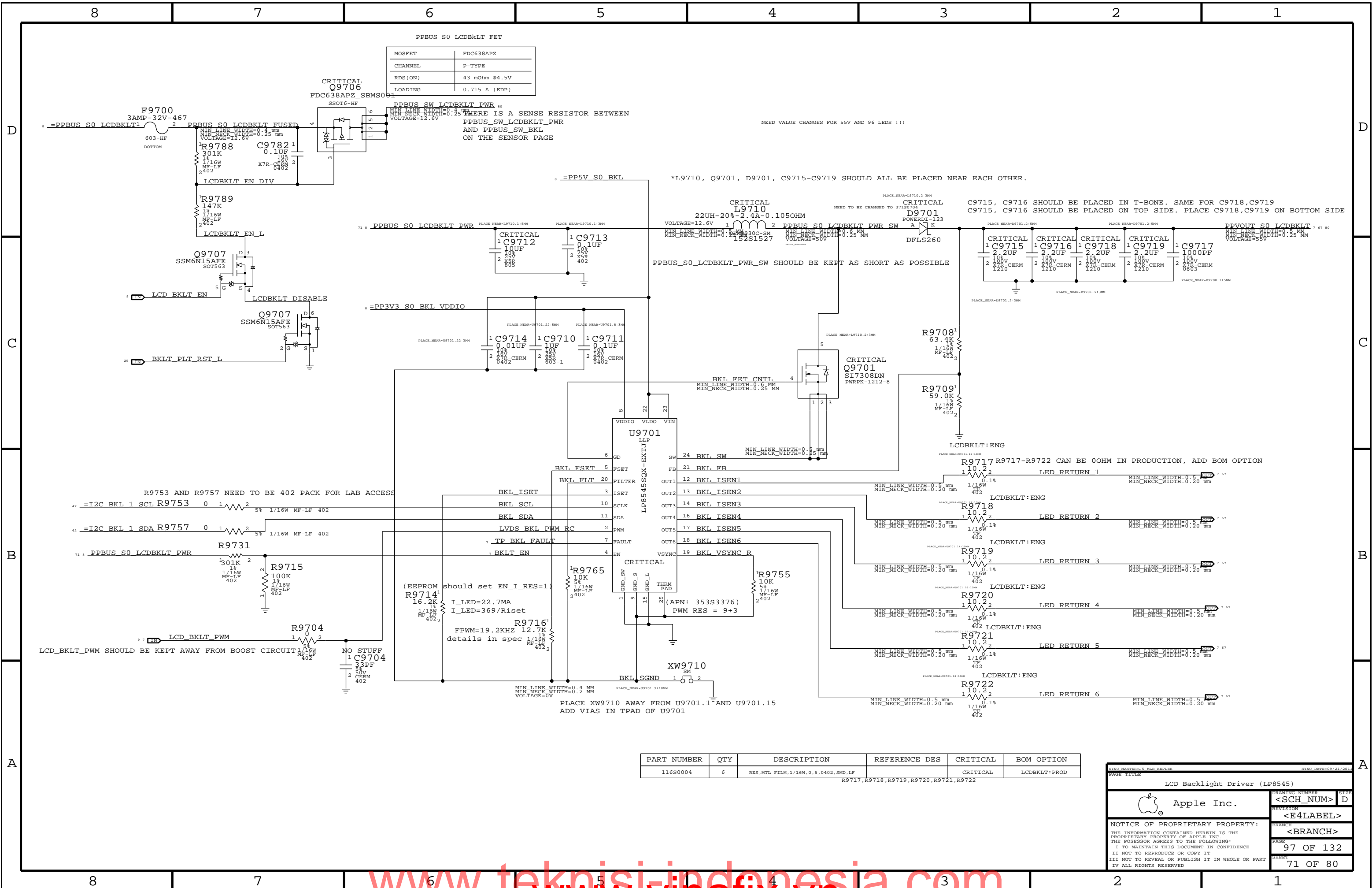
CRITICAL C9625 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9626 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9627 0.01UF 1 10V 10% X7R-CERM 0402

CRITICAL C9628 0.01UF 1 10V 10% X7R-CERM 0402

| | | | |
|---|--|-----------------------|-----------|
| SYMC PARTS: MIB, KIFLES | | SYMC DATE: 11/14/2011 | |
| PAGE TITLE | | | |
| Thunderbolt Connector B | | | |
| Apple Inc. | | DRAWING NUMBER | SIZE |
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| PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION |
|-------------|-----|------------------------------------|-------------------------------------|----------|--------------|
| 116S0004 | 6 | RES,MTL FILM,1/16W,0.5,0402,SMD,LF | R9717,R9718,R9719,R9720,R9721,R9722 | CRITICAL | LCDBKLT:PROD |

| | | | | | |
|---|--|-----------------------|--|--|--|
| SYNCH MASTER-TS_MCB_EFPLER | | SYNCH DATE-09/21/2011 | | | |
| PAGE TITLE | | | | | |
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| CPU Signal Constraints | | | | | | | |
|------------------------|-------|-----------------------|--------------------|--------------------|---------------------|----------------------|-------------------|
| PHYSICAL_RULE_SET | LAYER | ALLOW ROUTE ON LAYER? | MINIMUM LINE WIDTH | MINIMUM NECK WIDTH | MAXIMUM NECK LENGTH | DIFFPAIR PRIMARY GAP | DIFFPAIR NECK GAP |
| CPU_50S | * | =50_OHM_SE | =50_OHM_SE | =50_OHM_SE | =50_OHM_SE | =STANDARD | =STANDARD |
| CPU_55S | * | =55_OHM_SE | =55_OHM_SE | =55_OHM_SE | =55_OHM_SE | =STANDARD | =STANDARD |
| CPU_27P4S | * | =27P4_OHM_SE | =27P4_OHM_SE | =27P4_OHM_SE | =27P4_OHM_SE | 0.1MM | 0.1MM |

NOTE: 7 mil gap is for VCCSense pair, which Intel says to route with 7 mil spacing without specifying a target impedance.

| SPACING_RULE_SET | LAYER | LINE-TO-LINE SPACING | WEIGHT |
|------------------|-------|----------------------|--------|
| CPU_AGTL | * | =STANDARD | ? |
| CPU_8MIL | * | 8 MIL | ? |
| CPU_COMP | * | =4X_DIELECTRIC | ? |
| CPU_ITP | * | =4x_DIELECTRIC | ? |
| CPU_VCCSENSE | * | =6X_DIELECTRIC | ? |

Most CPU signals with impedance requirements are 50-ohm single-ended. Some signals require 27.4-ohm single-ended impedance.












SOURCE: IVB PLATFORM DG , Tables 205-207

PCI-Express

| PHYSICAL_RULE_SET | LAYER | ALLOW ROUTE ON LAYER? | MINIMUM LINE WIDTH | MINIMUM NECK WIDTH | MAXIMUM NECK LENGTH | DIFFPAIR PRIMARY GAP | DIFFPAIR NECK GAP |
|-------------------|-------|-----------------------|--------------------|--------------------|---------------------|----------------------|-------------------|
| PCIE_85D | * | =85_OHM_DIFF | =85_OHM_DIFF | =85_OHM_DIFF | =85_OHM_DIFF | =85_OHM_DIFF | =85_OHM_DIFF |
| CLK_PCIE_90D | * | =90_OHM_DIFF | =90_OHM_DIFF | =90_OHM_DIFF | =90_OHM_DIFF | =90_OHM_DIFF | =90_OHM_DIFF |

| SPACING_RULE_SET | LAYER | LINE-TO-LINE SPACING | WEIGHT |
|------------------|-------|----------------------|--------|
| PCIE | * | =6X_DIELECTRIC | ? |
| CLK_PCIE | * | =5X_DIELECTRIC | ? |


CPU Net Properties

| ELECTRICAL_CONSTRAINT_SET | | NET_TYPE | | | |
|---|-------------|--------------|----------|-------------------|---------|
| | | PHYSICAL | SPACING | | |
|  | DMI_S2N | PC1E_85D | PC1E | DMI_S2N P<3:0> | 7 10 18 |
|  | DMI_S2N | PC1E_85D | PC1E | DMI_S2N N<3:0> | 7 10 18 |
|  | DMI_N2S | PC1E_85D | PC1E | DMI_N2S P<3:0> | 7 10 18 |
|  | DMI_N2S | PC1E_85D | PC1E | DMI_N2S N<3:0> | 7 10 18 |
|  | FDI_DATA | PC1E_85D | PC1E | FDI_DATA P<7:0> | 7 10 18 |
|  | FDI_DATA | PC1E_85D | PC1E | FDI_DATA N<7:0> | 7 10 18 |
|  | FDI_FSYNC | CPU_50S | CPU_AGTL | FDI_FSYNC<1..0> | 10 18 |
|  | FDI_LSYNC | CPU_50S | CPU_AGTL | FDI_LSYNC<1..0> | 10 18 |
|  | FDI_INT | CPU_50S | CPU_AGTL | FDI_INT | 10 18 |
|  | DMI_CLK100M | CLK_PC1E_90D | CLK_PC1E | DMI_CLK100M CPU P | 7 11 17 |
|  | DMI_CLK100M | CLK_PC1E_90D | CLK_PC1E | DMI_CLK100M CPU N | 7 11 17 |

| | | | | | |
|------|-------------------|--------------|--------------|---------------------|----------|
| 0000 | CPU_EDP_COMP | CPU_27P4S | CPU_COMP | CPU EDP COMP | 10 |
| 0001 | CPU_PEG_COMP | CPU_27P4S | CPU_COMP | CPU PEG COMP | 10 |
| 0002 | CPU_CFG | CPU_50S | CPU_ITP | CPU CFG<17..0> | 10 24 |
| 0003 | XDP_CLK_CPU | CLK_BCTE_90N | CLK_BCTE | ITPCPU CLK100M P | 11 17 |
| 0004 | XDP_CLK_CPU | CLK_BCTE_90N | CLK_BCTE | ITPCPU CLK100M N | 11 17 |
| 0005 | XDP_CLK_PCH | CLK_BCTE_90N | CLK_BCTE | ITPXDPC CLK100M P | 17 24 |
| 0006 | XDP_CLK_PCH | CLK_BCTE_90N | CLK_BCTE | ITPXDPC CLK100M N | 17 24 |
| 0007 | DPPLL_REF_CLK120M | CLK_BCTE_90N | CLK_BCTE | DPPLL REF CLK P | 11 17 |
| 0008 | DPPLL_REF_CLK120M | CLK_BCTE_90N | CLK_BCTE | DPPLL REF CLK N | 11 17 |
| 0009 | XDP_TDI | CPU_50S | CPU_ITP | XDP CPU TDI | 11 24 |
| 0010 | XDP_TDO | CPU_50S | CPU_ITP | XDP CPU TDO | 11 24 |
| 0011 | XDP_TMS | CPU_50S | CPU_ITP | XDP CPU TMS | 11 24 |
| 0012 | XDP_TCK | CPU_50S | CPU_ITP | XDP CPU TCK | 11 24 |
| 0013 | XDP_TRST_L | CPU_50S | CPU_ITP | XDP CPU TRST L | 11 24 |
| 0014 | XDP_BPM | CPU_50S | CPU_ITP | XDP BPM L<3..0> | 11 24 |
| 0015 | XDP_BPM_L | CPU_50S | CPU_ITP | XDP BPM L<7..4> | 11 24 |
| 0016 | XDP_BDRESET_L | CPU_50S | CPU_ITP | XDP DBRESET L | 11 24 |
| 0017 | XDP_PRDY_L | CPU_50S | CPU_ITP | XDP CPU PRDY L | 11 24 25 |
| 0018 | XDP_PREQ_L | CPU_50S | CPU_ITP | XDP CPU PREQ L | 11 24 |
| 0019 | CPU_CATERR_L | CPU_50S | CPU_AGTL | CPU CATERR L | 11 39 |
| 0020 | CPU_PROC_SEL_L | CPU_50S | CPU_AGTL | CPU PROC SEL L | 11 20 |
| 0021 | CPU_PECI | CPU_50S | CPU_VID | CPU PECI | 11 20 |
| 0022 | CPU_PROCHOT_L | CPU_50S | CPU_AGTL | CPU PROCHOT L | 11 39 40 |
| 0023 | XDP_CPU_PWRGD | CPU_50S | CPU_ITP | XDP CPU PWRGD | 24 |
| 0024 | PM_THRMTRIP_L | CPU_50S | CPU_8MIT | PM THRMTRIP L | 11 20 40 |
| 0025 | PM_SYNC | CPU_50S | CPU_AGTL | PM_SYNC | 11 18 |
| 0026 | PM_MEM_PWRGD | CPU_50S | CPU_AGTL | PM_MEM_PWRGD | 11 18 27 |
| 0027 | CPU_PWRGD | CPU_50S | CPU_AGTL | CPU PWRGD | 11 20 24 |
| 0028 | CPU_SM_RCOMP | CPU_27P4S | CPU_COMP | CPU SM RCOMP<2..0> | 11 |
| 0029 | | CPU_50S | CPU_VID | CPU VIDSOUT | 13 61 |
| 0030 | | CPU_50S | CPU_VID | CPU VIDSCLK | 13 61 |
| 0031 | | CPU_50S | CPU_VID | CPU VIDALERT L | 13 61 |
| 0032 | | CPU_55S | CPU_VID | CPU VCCSA VID<1..0> | 13 58 |
| 0033 | CPU_VCCSENSE | CPU_27P4S | CPU_VCCSENSE | CPU VCCSENSE P | 13 61 |
| 0034 | CPU_VCCSENSE | CPU_27P4S | CPU_VCCSENSE | CPU VCCSENSE N | 13 61 |
| 0035 | CPU_VCCSENSE | CPU_27P4S | CPU_VCCSENSE | CPU VCCIOSENSE P | 13 63 |
| 0036 | CPU_VCCSENSE | CPU_27P4S | CPU_VCCSENSE | CPU VCCIOSENSE N | 13 63 |
| 0037 | CPU_VCCSENSE | CPU_27P4S | CPU_VCCSENSE | CPU AXG SENSE P | 13 61 |
| 0038 | CPU_VCCSENSE | CPU_27P4S | CPU_VCCSENSE | CPU AXG SENSE N | 13 61 |
| 0039 | CPU_VCCSENSE | CPU_27P4S | CPU_VCCSENSE | CPU VCC_VALSENSE P | 10 |
| 0040 | CPU_VCCSENSE | CPU_27P4S | CPU_VCCSENSE | CPU VCC_VALSENSE N | 10 |
| 0041 | CPU_VCCSENSE | CPU_27P4S | CPU_VCCSENSE | CPU AXG_VALSENSE P | 10 |
| 0042 | CPU_VCCSENSE | CPU_27P4S | CPU_VCCSENSE | CPU AXG_VALSENSE N | 10 |
| 0043 | CPU_VCCSASENSE | CPU_50S | CPU_AGTL | CPU VCCSASENSE | 13 58 |

| | | | | | |
|----|--------------|--|----------|------------------------|-------|
| 00 | CPU_MEM_VREF | | CPU_VREF | PPCPU MEM VREFD0_A | 10 31 |
| 00 | CPU_MEM_VREF | | CPU_VREF | PPCPU MEM VREFD0_B | 10 31 |
| 00 | CPU_MEM_VREF | | CPU_VREF | PP0V75 S3 MEM VREFD0_A | 26 31 |
| 00 | CPU_MEM_VREF | | CPU_VREF | PP0V75 S3 MEM VREFD0_B | 26 31 |
| 00 | CPU_MEM_VREF | | CPU_VREF | PP0V75 S3 MEM VREFCA_A | 26 31 |
| 00 | CPU_MEM_VREF | | CPU_VREF | PP0V75 S3 MEM VREFCA_B | 26 31 |

| | | | |
|-------------|--------------|----------|-------------------|
| XDP_CLK_ITP | CLK_PCIE_90D | CLK_PCIE | XDP CPU CLK100M P |
| XDP_CLK_ITP | CLK_PCIE_90D | CLK_PCIE | XDP CPU CLK100M N |

| | | | |
|---|--|--|--|
| 0000-SECTION-00-000 PAGE 111111 | | 0000-DATE-00/11/11 | |
| CPU Constraints | | | |
|  Apple Inc. | | DRAWING NUMBER <SCH_NUM> | |
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Digital Video Signal Constraints

SATA Interface Constraints

| PHYSICAL_RULE_SET | LAYER | ALLOW ROUTE ON LAYER? | MINIMUM LINE WIDTH | MINIMUM NECK WIDTH | MAXIMUM NECK LENGTH | DIFFPAIR PRIMARY GAP | DIFFPAIR NECK GAP |
|-------------------|-------|-----------------------|--------------------|--------------------|---------------------|----------------------|-------------------|
| SATA_90D | * | =90_OHM_DIFF | =90_OHM_DIFF | =90_OHM_DIFF | =90_OHM_DIFF | =90_OHM_DIFF | =90_OHM_DIFF |
| SATA_37SE | * | =37_OHM_SE | =37_OHM_SE | =37_OHM_SE | =37_OHM_SE | =37_OHM_SE | =37_OHM_SE |
| SATA_50SE | * | =50_OHM_SE | =50_OHM_SE | =50_OHM_SE | =50_OHM_SE | =50_OHM_SE | =50_OHM_SE |

| SPACING_RULE_SET | LAYER | LINE-TO-LINE SPACING | WEIGHT |
|------------------|-------|----------------------|--------|
| SATA | * | =5:1_SPACING | ? |
| SATA_ICOMP | * | 15 MIL | ? |

| SPACING_RULE_SET | LAYER | LINE-TO-LINE SPACING | WEIGHT |
|------------------|------------|----------------------|--------|
| SATA | TOP,BOTTOM | =5:1_SPACING | ? |

SOURCE: HR PLATFORM DESIGN GUIDE, TABLES 191,193

USB 2.0 Interface Constraints

| PHYSICAL_RULE_SET | LAYER | ALLOW ROUTE ON LAYER? | MINIMUM LINE WIDTH | MINIMUM NECK WIDTH | MAXIMUM NECK LENGTH | DIFFPAIR PRIMARY GAP | DIFFPAIR NECK GAP |
|-------------------|-------|-----------------------|--------------------|--------------------|---------------------|----------------------|-------------------|
| PCH_USB_RBIAS | * | =STANDARD | =STANDARD | =STANDARD | =STANDARD | =STANDARD | =STANDARD |
| USB_85D | * | =85_OHM_DIFF | =85_OHM_DIFF | =85_OHM_DIFF | =85_OHM_DIFF | =85_OHM_DIFF | =85_OHM_DIFF |

| SPACING_RULE_SET | LAYER | LINE-TO-LINE SPACING | WEIGHT |
|------------------|-------|----------------------|--------|
| USB | * | =4:1_SPACING | ? |
| USB_RBIAS | * | 15 MIL | ? |

| SPACING_RULE_SET | LAYER | LINE-TO-LINE SPACING | WEIGHT |
|------------------|------------|----------------------|--------|
| USB | TOP,BOTTOM | =4:1_SPACING | ? |

SOURCE: HR PLATFORM DESIGN GUIDE, TABLES 191,193

USB 3.0 INTERFACE CONSTRAINTS

| PHYSICAL_RULE_SET | LAYER | ALLOW ROUTE ON LAYER? | MINIMUM LINE WIDTH | MINIMUM NECK WIDTH | MAXIMUM NECK LENGTH | DIFFPAIR PRIMARY GAP | DIFFPAIR NECK GAP |
|-------------------|-------|-----------------------|--------------------|--------------------|---------------------|----------------------|-------------------|
| USB3_85D | * | =85_OHM_DIFF | =85_OHM_DIFF | =85_OHM_DIFF | =85_OHM_DIFF | =85_OHM_DIFF | =85_OHM_DIFF |

| SPACING_RULE_SET | LAYER | LINE-TO-LINE SPACING | WEIGHT |
|------------------|-------|----------------------|--------|
| USB3 | * | =5:1_SPACING | ? |

| SPACING_RULE_SET | LAYER | LINE-TO-LINE SPACING | WEIGHT |
|------------------|------------|----------------------|--------|
| USB3 | TOP,BOTTOM | =5:1_SPACING | ? |

SOURCE: CR SFF PLATFORM DESIGN GUIDE V0.7, TABLE 4-211, 1X1+

System Clock Signal Constraints

| PHYSICAL_RULE_SET | LAYER | ALLOW ROUTE ON LAYER? | MINIMUM LINE WIDTH | MINIMUM NECK WIDTH | MAXIMUM NECK LENGTH | DIFFPAIR PRIMARY GAP | DIFFPAIR NECK GAP |
|-------------------|-------|-----------------------|--------------------|--------------------|---------------------|----------------------|-------------------|
| CLK_SLOW_55S | * | =55_OHM_SE | =55_OHM_SE | =55_OHM_SE | =55_OHM_SE | =STANDARD | =STANDARD |
| CLK_25M_55S | * | =55_OHM_SE | =55_OHM_SE | =55_OHM_SE | =55_OHM_SE | =STANDARD | =STANDARD |

| SPACING_RULE_SET | LAYER | LINE-TO-LINE SPACING | WEIGHT |
|------------------|-------|----------------------|--------|
| CLK_SLOW | * | =2X_DIELECTRIC | ? |
| CLK_25M | * | =5X_DIELECTRIC | ? |

NOTE: 25MHz system clocks very sensitive to noise.

PCH Net Properties

| ELECTRICAL_CONSTRAINT_SET | | | | NET_TYPE | |
|---------------------------|--------------|----------|------|-----------------------|---------|
| | | | | PHYSICAL | SPACING |
| E97D | SATA_HDD_R2D | SATA_90D | SATA | SATA HDD R2D RDRIN P | 7 |
| E98D | SATA_HDD_R2D | SATA_90D | SATA | SATA HDD R2D RDRIN N | 7 |
| E99D | SATA_HDD_D2R | SATA_90D | SATA | SATA HDD D2R RDROUT P | 7 |
| E20D | SATA_HDD_D2R | SATA_90D | SATA | SATA HDD D2R RDROUT N | 7 |
| E98D | SATA_HDD_D2R | SATA_90D | SATA | SATA HDD D2R RDRIN P | 7 |
| E99D | SATA_HDD_D2R | SATA_90D | SATA | SATA HDD D2R RDRIN N | 7 |
| E98D | SATA_HDD_R2D | SATA_90D | SATA | SATA HDD R2D RDROUT N | 7 |
| E99D | SATA_HDD_R2D | SATA_90D | SATA | SATA HDD R2D RDROUT P | 7 |
| E20D | SATA_HDD_D2R | SATA_90D | SATA | SATA HDD D2R RC P | 7 37 |
| E98D | SATA_HDD_D2R | SATA_90D | SATA | SATA HDD D2R RC N | 7 37 |
| E99D | SATA_HDD_R2D | SATA_90D | SATA | SATA HDD R2D RC N | 7 37 |
| E98D | SATA_HDD_R2D | SATA_90D | SATA | SATA HDD R2D RC P | 7 37 |
| | SATA_HDD_R2D | SATA_90D | SATA | SATA HDD R2D C P | 7 17 37 |
| | SATA_HDD_R2D | SATA_90D | SATA | SATA HDD R2D C N | 7 17 37 |
| | SATA_HDD_D2R | SATA_90D | SATA | SATA HDD D2R P | 7 17 37 |
| | SATA_HDD_D2R | SATA_90D | SATA | SATA HDD D2R N | 7 17 37 |

| | | | | | |
|------|--------------|----------|------|--------------------|------|
| E97D | SATA_HDD_D2R | SATA_90D | SATA | SATA SSDRHDD D2R P | 7 37 |
| E97D | SATA_HDD_D2R | SATA_90D | SATA | SATA SSDRHDD D2R N | 7 37 |
| E97D | SATA_HDD_R2D | SATA_90D | SATA | SATA SSDRHDD R2D P | 7 37 |
| E97D | SATA_HDD_R2D | SATA_90D | SATA | SATA SSDRHDD R2D N | 7 37 |

| | | | | | |
|------|-----------------|---------------|------------|-------------------|---------|
| 88D | PCH_SATA3_ICOMP | SATA_50SE | SATA_ICOMP | PCH SATA3COMP | 17 |
| | PCH_SATA_ICOMP | SATA_37SE | SATA_ICOMP | PCH SATAICOMP | 17 |
| | USB_EXTB | USB_85D | USB | USB EXTB XHCI P | 19 26 |
| E21D | USB_EXTB | USB_85D | USB | USB EXTB XHCI N | 19 26 |
| E22D | USB_EXTB | USB_85D | USB | USB EXTB EHCI P | 19 26 |
| | USB_EXTB | USB_85D | USB | USB EXTB EHCI N | 19 26 |
| | USB_HUB2_UP | USB_85D | USB | USB HUB UP P | 19 26 |
| | USB_HUB2_UP | USB_85D | USB | USB HUB UP N | 19 26 |
| | USB_EXTB | USB_85D | USB | USB EXTB P | 19 38 |
| | USB_EXTB | USB_85D | USB | USB EXTB N | 19 38 |
| | USB_EXTB | USB_85D | USB | USB EXTB P | 7 26 36 |
| | USB_EXTB | USB_85D | USB | USB EXTB N | 7 26 36 |
| | USB_EXTC | USB_85D | USB | USB EXTD P | |
| | USB_EXTC | USB_85D | USB | USB EXTD N | |
| | USB_CAMERA | USB_85D | USB | USB CAMERA CONN P | 7 32 |
| | USB_CAMERA | USB_85D | USB | USB CAMERA CONN N | 7 32 |
| | USB_BT | USB_85D | USB | USB BT P | 7 9 36 |
| | USB_BT | USB_85D | USB | USB BT N | 7 9 36 |
| | USB_TPAD | USB_85D | USB | USB TPAD P | 9 47 |
| | USB_TPAD | USB_85D | USB | USB TPAD N | 9 47 |
| | USB_SMC | USB_85D | USB | USB SMC P | 9 39 |
| | USB_SMC | USB_85D | USB | USB SMC N | 9 39 |
| | PCH_USB_RBIAS | PCH_USB_RBIAS | USB_RBIAS | PCH USB RBIAS | 19 |
| E97D | USB_EXTD | USB_85D | USB | USB EXTD XHCI P | 19 26 |
| E97D | USB_EXTD | USB_85D | USB | USB EXTD XHCI N | 19 26 |
| E98D | USB_EXTB | USB_85D | USB | USB EXTB MUXED P | 38 |
| E98D | USB_EXTB | USB_85D | USB | USB EXTB MUXED N | 38 |
| E99D | USB_CAMERA | USB_85D | USB | USB CAMERA P | 19 32 |
| E99D | USB_CAMERA | USB_85D | USB | USB CAMERA N | 19 32 |
| E20D | USB_EXTB | USB_85D | USB | USB LTI P | 7 38 |
| E20D | USB_EXTB | USB_85D | USB | USB LTI N | 7 38 |
| E98D | USB3_EXTB_TX | USB3_85D | USB3 | USB3 EXTB TX P | 7 19 36 |
| E98D | USB3_EXTB_TX | USB3_85D | USB3 | USB3 EXTB TX N | 7 19 36 |
| E98D | USB3_EXTB_RX | USB3_85D | USB3 | USB3 EXTB RX P | 7 19 36 |
| E98D | USB3_EXTB_RX | USB3_85D | USB3 | USB3 EXTB RX N | 7 19 36 |

| | | | | | |
|------|--------------|----------|------|----------------|---------|
| E98D | USB3_EXTB_TX | USB3_85D | USB3 | USB3 EXTB TX P | 19 38 |
| E98D | USB3_EXTB_TX | USB3_85D | USB3 | USB3 EXTB TX N | 7 19 38 |
| E98D | USB3_EXTB_RX | USB3_85D | USB3 | USB3 EXTB RX P | 7 19 38 |
| E98D | USB3_EXTB_RX | USB3_85D | USB3 | USB3 EXTB RX N | 7 19 38 |

Clock Net Properties

| ELECTRICAL_CONSTRAINT_SET | | | | NET_TYPE | |
|---------------------------|--------------------|--------------|----------|----------------------|---------|
| | | | | PHYSICAL | SPACING |
| E98D | SYSCLK_CLK32K_RTC | CLK_SLOW_55S | CLK_SLOW | SYSCLK_CLK32K_RTC | 17 25 |
| E98D | SYSCLK_CLK25M_SB | CLK_25M_55S | CLK_25M | SYSCLK_CLK25M_SB | 17 25 |
| E98D | SYSCLK_CLK25M_ENET | CLK_25M_55S | CLK_25M | SYSCLK_CLK25M_SB_R | 17 |
| E98D | SYSCLK_CLK25M_ENET | CLK_25M_55S | CLK_25M | SYSCLK_CLK25M_ENET | |
| E98D | SYSCLK_CLK25M_ENET | CLK_25M_55S | CLK_25M | SYSCLK_CLK25M_ENET_R | |
| E98D | SYSCLK_CLK25M_TBT | CLK_25M_55S | CLK_25M | SYSCLK_CLK25M_TBT | 25 33 |
| E98D | SYSCLK_CLK25M_TBT | CLK_25M_55S | CLK_25M | SYSCLK_CLK25M_TBT_R | 33 |

SYMC_HATPCH32K_M3D_K32K32K

SYMC_DATE=09/21/2011

PCH Constraints 1

DRAWING NUMBER

SIZE

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<SCH_NUM>

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LPC Bus Constraints

| PHYSICAL_RULE_SET | LAYER | ALLOW ROUTE ON LAYER? | MINIMUM LINE WIDTH | MINIMUM NECK WIDTH | MAXIMUM NECK LENGTH | DIFFPAIR PRIMARY GAP | DIFFPAIR NECK GAP |
|-------------------|-------|-----------------------|--------------------|--------------------|---------------------|----------------------|-------------------|
| LPC_50S | * | =50_OHM_SE | =50_OHM_SE | =50_OHM_SE | =50_OHM_SE | =STANDARD | =STANDARD |
| CLK_LPC_50S | * | =50_OHM_SE | =50_OHM_SE | =50_OHM_SE | =50_OHM_SE | =STANDARD | =STANDARD |

| SPACING_RULE_SET | LAYER | LINE-TO-LINE SPACING | WEIGHT |
|------------------|-------|----------------------|--------|
| LPC | * | 6 MIL | ? |
| CLK_LPC | * | 8 MIL | ? |

SMBus Interface Constraints

| PHYSICAL_RULE_SET | LAYER | ALLOW ROUTE ON LAYER? | MINIMUM LINE WIDTH | MINIMUM NECK WIDTH | MAXIMUM NECK LENGTH | DIFFPAIR PRIMARY GAP | DIFFPAIR NECK GAP |
|-------------------|-------|-----------------------|--------------------|--------------------|---------------------|----------------------|-------------------|
| SMB_50S | * | =50_OHM_SE | =50_OHM_SE | =50_OHM_SE | =50_OHM_SE | =STANDARD | =STANDARD |

| SPACING_RULE_SET | LAYER | LINE-TO-LINE SPACING | WEIGHT |
|------------------|-------|----------------------|--------|
| SMB | * | =2x_DIELECTRIC | ? |

HD Audio Interface Constraints

| PHYSICAL_RULE_SET | LAYER | ALLOW ROUTE ON LAYER? | MINIMUM LINE WIDTH | MINIMUM NECK WIDTH | MAXIMUM NECK LENGTH | DIFFFAIR PRIMARY GAP | DIFFFAIR NECK GAP |
|-------------------|-------|-----------------------|--------------------|--------------------|---------------------|----------------------|-------------------|
| HDA_50S | * | =50_OHM_SE | =50_OHM_SE | =50_OHM_SE | =50_OHM_SE | =STANDARD | =STANDARD |

| SPACING_RULE_SET | LAYER | LINE-TO-LINE SPACING | WEIGHT |
|------------------|-------|----------------------|--------|
| HDA | * | =2x_DIELECTRIC | ? |

SIO Signal Constraints

| PHYSICAL_RULE_SET | LAYER | ALLOW ROUTE ON LAYER | MINIMUM LINE WIDTH | MINIMUM NECK WIDTH | MAXIMUM NECK LENGTH | DIFFPAIR PRIMARY GAP | DIFFPAIR NECK GAP |
|-------------------|-------|----------------------|--------------------|--------------------|---------------------|----------------------|-------------------|
| CLK_SLOW_55S | * | =55_OHM_SE | =55_OHM_SE | =55_OHM_SE | =55_OHM_SE | =STANDARD | =STANDARD |

| SPACING_RULE_SET | LAYER | LINE-TO-LINE SPACING | WEIGHT |
|------------------|-------|----------------------|--------|
| CLK_SLOW | * | 8 MIL | ? |

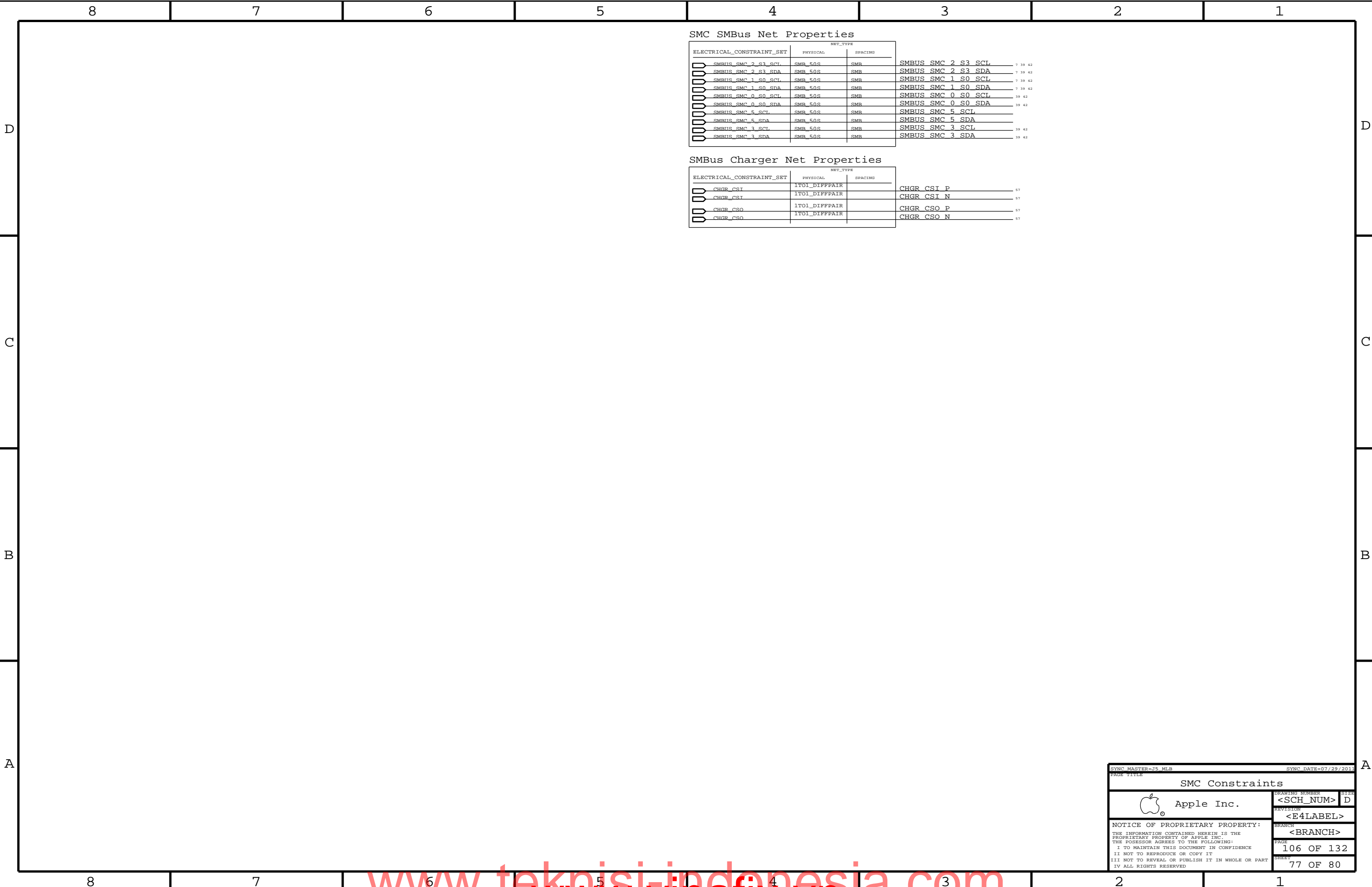
SPI Interface Constraints

| PHYSICAL_RULE_SET | LAYER | ALLOW ROUTE ON LAYER? | MINIMUM LINE WIDTH | MINIMUM NECK WIDTH | MAXIMUM NECK LENGTH | DIFFPAIR PRIMARY GAP | DIFFPAIR NECK GAP |
|-------------------|-------|-----------------------|--------------------|--------------------|---------------------|----------------------|-------------------|
| SPI_55G | * | =55_OHM_SE | =55_OHM_SE | =55_OHM_SE | =55_OHM_SE | =STANDARD | =STANDARD |

| SPACING_RULE_SET | LAYER | LINE-TO-LINE SPACING | WEIGHT |
|------------------|-------|----------------------|--------|
| SPI | * | 8 MIL | ? |

PCH Net Properties

| ELECTRICAL_CONSTRAINT_SET | | NET_TYPE | | PHYSICAL | | SPACING | |
|---------------------------|---------------------|--------------|----------|------------------------|--|---------|----------|
| | LPC_AD | LPC_50S | LPC | LPC_AD<3..0> | | 7 | 17 39 41 |
| | LPC_FRAME_L | LPC_50S | LPC | LPC_FRAME_L | | 7 | 17 39 41 |
| | LPC_RESET_L | LPC_50S | LPC | LPC_RESET_L | | 25 | |
| | PCH_LPC_CLK0 | CLK_LPC_50S | CLK_LPC | LPC_CLK33M_SMC_R | | 19 | 35 |
| | | CLK_LPC_50S | CLK_LPC | LPC_CLK33M_SMC | | 7 | 25 39 |
| | | CLK_LPC_50S | CLK_LPC | LPC_CLK33M_LPCPLUS | | 7 | 25 41 |
| | SMBUS_PCH_CLK | SMB_50S | SMB | SMBUS_PCH_CLK | | 7 | 17 42 |
| | SMBUS_PCH_DATA | SMB_50S | SMB | SMBUS_PCH_DATA | | 7 | 17 42 |
| | SMBUS_PCH_0_CLK | SMB_50S | SMB | SML_PCH_0_CLK | | 17 | 42 |
| | SMBUS_PCH_0_DATA | SMB_50S | SMB | SML_PCH_0_DATA | | 17 | 42 |
| | SMBUS_SMC_1_S0_SCI | SMB_50S | SMB | SML_PCH_1_CLK | | 17 | 42 |
| | SMBUS_SMC_1_S0_SDA | SMB_50S | SMB | SML_PCH_1_DATA | | 17 | 42 |
| | HDA_BIT_CLK | HDA_50S | HDA | HDA_BIT_CLK | | 17 | 41 |
| | | HDA_50S | HDA | HDA_BIT_CLK_R | | 17 | |
| | HDA_SYNC | HDA_50S | HDA | HDA_SYNC | | 17 | 51 |
| | | HDA_50S | HDA | HDA_SYNC_R | | 17 | |
| | HDA_RST_L | HDA_50S | HDA | HDA_RST_R_L | | 17 | |
| | | HDA_50S | HDA | HDA_RST_L | | 17 | 51 |
| | HDA_SDIIN0 | HDA_50S | HDA | HDA_SDIIN0 | | 17 | 51 |
| | | HDA_50S | HDA | AUD_SDI_R | | 61 | |
| | HDA_SDOUIT | HDA_50S | HDA | HDA_SDOUIT | | 17 | 51 |
| | | HDA_50S | HDA | HDA_SDOUIT_R | | 17 | 55 |
| | SPI_CLK | SPI_55S | SPI | SPI_CLK_R | | 17 | 41 |
| | | SPI_55S | SPI | SPI_CLK | | 41 | |
| | SPI_MOSI | SPI_55S | SPI | SPI_MOSI_R | | 17 | 41 |
| | | SPI_55S | SPI | SPI_MOSI | | 41 | |
| | SPI_MISO | SPI_55S | SPI | SPI_MISO | | 17 | 41 |
| | SPI_CS0 | SPI_55S | SPI | SPI_CS0_R_L | | 17 | 41 |
| | | SPI_55S | SPI | SPI_CS0_L | | 41 | |
| | PCIE_ENET_R2D | PCIE_85D | PCIE | PCIE_ENET_R2D_C_P | | 7 | 17 36 |
| | PCIE_ENET_R2D | PCIE_85D | PCIE | PCIE_ENET_R2D_C_N | | 7 | 17 36 |
| | PCIE_ENET_D2R | PCIE_85D | PCIE | PCIE_ENET_D2R_P | | 7 | 17 36 |
| | PCIE_ENET_D2R | PCIE_85D | PCIE | PCIE_ENET_D2R_N | | 7 | 17 36 |
| | PCIE_AP_R2D | PCIE_85D | PCIE | PCIE_AP_R2D_P | | 7 | 36 |
| | PCIE_AP_R2D | PCIE_85D | PCIE | PCIE_AP_R2D_N | | 7 | 36 |
| | PCIE_AP_R2D | PCIE_85D | PCIE | PCIE_AP_R2D_C_P | | 7 | 17 36 |
| | PCIE_AP_R2D | PCIE_85D | PCIE | PCIE_AP_R2D_C_N | | 7 | 17 36 |
| | PCIE_AP_D2R | PCIE_85D | PCIE | PCIE_AP_D2R_P | | 7 | 17 36 |
| | PCIE_AP_D2R | PCIE_85D | PCIE | PCIE_AP_D2R_N | | 7 | 17 36 |
| 7970 | PCIE_AP_D2R | PCIE_85D | PCIE | PCIE_AP_D2R_PI_P | | 7 | 36 |
| 7970 | PCIE_AP_D2R | PCIE_85D | PCIE | PCIE_AP_D2R_PI_N | | 7 | 36 |
| 7970 | PCIE_AP_D2R | PCIE_85D | PCIE | PCIE_AP_R2D_PI_P | | 7 | 36 |
| 7970 | PCIE_AP_D2R | PCIE_85D | PCIE | PCIE_AP_R2D_PI_N | | 7 | 36 |
| 7970 | PCIE_CLK100M_PCH | CLK_PCIE_90D | CLK_PCIE | PCIE_CLK100M_PCH_P | | 7 | 17 |
| 7970 | PCIE_CLK100M_PCH | CLK_PCIE_90D | CLK_PCIE | PCIE_CLK100M_PCH_N | | 7 | 17 |
| 7970 | PCIE_CLK100M_TBT | CLK_PCIE_90D | CLK_PCIE | PCIE_CLK100M_TBT_P | | 7 | 17 33 |
| 7970 | PCIE_CLK100M_TBT | CLK_PCIE_90D | CLK_PCIE | PCIE_CLK100M_TBT_N | | 7 | 17 33 |
| 7970 | PCH_CLK96M | CLK_PCIE_90D | CLK_PCIE | PCH_CLK96M_DOT_P | | 17 | |
| 7970 | PCH_CLK96M | CLK_PCIE_90D | CLK_PCIE | PCH_CLK96M_DOT_N | | 17 | |
| 7970 | PCH_CLK100M_SATA | CLK_PCIE_90D | CLK_PCIE | PCH_CLK100M_SATA_P | | 17 | 17 |
| 7970 | PCH_CLK100M_SATA | CLK_PCIE_90D | CLK_PCIE | PCH_CLK100M_SATA_N | | 17 | |
| 7970 | | CPU_50S | CLK_PCIE | PCH_CLK14P3M_REFCLK | | 17 | |
| 7970 | | CPU_50S | CLK_PCIE | PCH_CLK33M_PCIIN | | 7 | 17 25 |
| 7970 | PCIE_CLK100M_SSD | CLK_PCIE_90D | CLK_PCIE | PCIE_CLK100M_SSD_P | | 7 | 17 |
| 7970 | PCIE_CLK100M_SSD | CLK_PCIE_90D | CLK_PCIE | PCIE_CLK100M_SSD_N | | 7 | 17 |
| 7970 | PCIE_CLK100M | CLK_PCIE_90D | CLK_PCIE | PEG_CLK100M_P | | 7 | 17 |
| 7970 | PCIE_CLK100M | CLK_PCIE_90D | CLK_PCIE | PEG_CLK100M_N | | 7 | 17 |
| 7970 | PCIE_CLK100M_ENET | CLK_PCIE_90D | CLK_PCIE | PCIE_CLK100M_ENET_P | | 7 | 17 36 |
| 7970 | PCIE_CLK100M_ENET | CLK_PCIE_90D | CLK_PCIE | PCIE_CLK100M_ENET_N | | 7 | 17 36 |
| 7970 | PCIE_CLK100M_AP | CLK_PCIE_90D | CLK_PCIE | PCIE_CLK100M_AP_P | | 7 | 17 36 |
| 7970 | PCIE_CLK100M_AP | CLK_PCIE_90D | CLK_PCIE | PCIE_CLK100M_AP_N | | 7 | 17 36 |
| 7970 | PCIE_CLK100M_FW | CLK_PCIE_90D | CLK_PCIE | PCIE_CLK100M_FW_P | | 7 | 17 36 |
| 7970 | PCIE_CLK100M_FW | CLK_PCIE_90D | CLK_PCIE | PCIE_CLK100M_FW_N | | 7 | 17 36 |
| 7970 | PCIE_CLK100M_EXCARD | CLK_PCIE_90D | CLK_PCIE | PCIE_CLK100M_EXCARD_P | | 7 | 17 |
| 7970 | PCIE_CLK100M_EXCARD | CLK_PCIE_90D | CLK_PCIE | PCIE_CLK100M_EXCARD_N | | 7 | 17 |
| 7970 | PCIE_TBT_R2D | PCIE_85D | PCIE | PCIE_TBT_R2D_C_P<3..0> | | 7 | 33 |
| 7970 | PCIE_TBT_R2D | PCIE_85D | PCIE | PCIE_TBT_R2D_C_N<3..0> | | 7 | 33 |
| 7970 | PCIE_TBT_R2D | PCIE_85D | PCIE | PCIE_TBT_R2D_P<3..0> | | 7 | 33 |
| 7970 | PCIE_TBT_R2D | PCIE_85D | PCIE | PCIE_TBT_R2D_N<3..0> | | 7 | 33 |
| 7970 | PCIE_TBT_D2R | PCIE_85D | PCIE | PCIE_TBT_D2R_P<3..0> | | 7 | 33 |
| 7970 | PCIE_TBT_D2R | PCIE_85D | PCIE | PCIE_TBT_D2R_N<3..0> | | 7 | 33 |
| 7970 | PCIE_TBT_D2R | PCIE_85D | PCIE | PCIE_TBT_D2R_C_P<3..0> | | 7 | 33 |
| 7970 | PCIE_TBT_D2R | PCIE_85D | PCIE | PCIE_TBT_D2R_C_N<3..0> | | 7 | 33 |



SMC SMBus Net Properties

| ELECTRICAL_CONSTRAINT_SET | NET_TYPE | | | |
|---------------------------|----------|---------|--------------------|---------|
| | PHYSICAL | SPACING | | |
| SMBUS_SMC_2_S3_SCL | SMB_50S | SMB | SMBUS_SMC_2_S3_SCL | 7 39 42 |
| SMBUS_SMC_2_S3_SDA | SMB_50S | SMB | SMBUS_SMC_2_S3_SDA | 7 39 42 |
| SMBUS_SMC_1_S0_SCL | SMB_50S | SMB | SMBUS_SMC_1_S0_SCL | 7 39 42 |
| SMBUS_SMC_1_S0_SDA | SMB_50S | SMB | SMBUS_SMC_1_S0_SDA | 7 39 42 |
| SMBUS_SMC_0_S0_SCL | SMB_50S | SMB | SMBUS_SMC_0_S0_SCL | 39 42 |
| SMBUS_SMC_0_S0_SDA | SMB_50S | SMB | SMBUS_SMC_0_S0_SDA | 39 42 |
| SMBUS_SMC_5_SCL | SMB_50S | SMB | SMBUS_SMC_5_SCL | |
| SMBUS_SMC_5_SDA | SMB_50S | SMB | SMBUS_SMC_5_SDA | |
| SMBUS_SMC_3_SCL | SMB_50S | SMB | SMBUS_SMC_3_SCL | 39 42 |
| SMBUS_SMC_3_SDA | SMB_50S | SMB | SMBUS_SMC_3_SDA | 39 42 |

SMBus Charger Net Properties

| ELECTRICAL_CONSTRAINT_SET | NET_TYPE | | | |
|---------------------------|---------------|---------|------------|----|
| | PHYSICAL | SPACING | | |
| CHGR_CSI | 1T01_DIFFPAIR | | CHGR_CSI_P | 57 |
| CHGR_CSI | 1T01_DIFFPAIR | | CHGR_CSI_N | 57 |
| CHGR_CSO | 1T01_DIFFPAIR | | CHGR_CSO_P | 57 |
| CHGR_CSO | 1T01_DIFFPAIR | | CHGR_CSO_N | 57 |

SYNC MASTER=J5_MLB

SYNC DATE=07/29/2011

SMC Constraints

Apple Inc.

DRAWING NUMBER<SCH_NUM>

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| PHYSICAL_RULE_SET | LAYER | ALLOW ROUTE ON LAYER? | MINIMUM LINE WIDTH | MINIMUM NECK WIDTH | MAXIMUM NECK LENGTH | DIFFPAIR PRIMARY GAP | DIFFPAIR NECK GAP |
|-------------------|-------|-----------------------|--------------------|--------------------|---------------------|----------------------|-------------------|
| SENSE_1T01_55S | * | =1:1_DIFFPAIR | =55_OHM_SE | =55_OHM_SE | =55_OHM_SE | =1:1_DIFFPAIR | =1:1_DIFFPAIR |
| THERM_1T01_55S | * | =1:1_DIFFPAIR | =55_OHM_SE | =55_OHM_SE | =55_OHM_SE | =1:1_DIFFPAIR | =1:1_DIFFPAIR |
| DIFFPAIR | * | =1:1_DIFFPAIR | | | =1:1_DIFFPAIR | =1:1_DIFFPAIR | =1:1_DIFFPAIR |
| AUDIODIFF | * | =1:1_DIFFPAIR | 0.1 MM | 0.1 MM | 10 MM | 0.1 MM | 0.1 MM |

| SPACING_RULE_SET | LAYER | LINE-TO-LINE SPACING | WEIGHT |
|------------------|-------|----------------------|--------|
| SENSE | * | =2:1_SPACING | ? |
| THERM | * | =2:1_SPACING | ? |
| AUDIO | * | =2:1_SPACING | ? |

| SPACING_RULE_SET | LAYER | LINE-TO-LINE SPACING | WEIGHT |
|------------------|-------|----------------------|--------|
| GND | * | =STANDARD | ? |

| SPACING_RULE_SET | LAYER | LINE-TO-LINE SPACING | WEIGHT |
|------------------|-------|----------------------|--------|
| GND_P2MM | * | 0.20 MM | 1000 |
| PWR_P2MM | * | 0.20 MM | 1000 |

| NET_SPACING_TYPE1 | NET_SPACING_TYPE2 | AREA_TYPE | SPACING_RULE_SET |
|-------------------|-------------------|-----------|------------------|
| GND | MEM_CLK | * | GND_P2MM |
| GND | MEM_CMD | * | GND_P2MM |
| GND | MEM_CTRL | * | GND_P2MM |
| GND | MEM_*_DQ_BYTE* | * | GND_P2MM |
| GND | MEM_DQS | * | GND_P2MM |

| PHYSICAL_RULE_SET | LAYER | ALLOW ROUTE ON LAYER? | MINIMUM LINE WIDTH | MINIMUM NECK WIDTH | MAXIMUM NECK LENGTH | DIFFPAIR PRIMARY GAP | DIFFPAIR NECK GAP |
|-------------------|--------|-----------------------|--------------------|--------------------|---------------------|----------------------|-------------------|
| MEM_40S OVERRIDE | * | OVERRIDE | OVERRIDE | 0.09 MM OVERRIDE | 100 MIL OVERRIDE | OVERRIDE | OVERRIDE |
| MEM_72D OVERRIDE | * | OVERRIDE | OVERRIDE | 0.09 MM OVERRIDE | 100 MIL OVERRIDE | OVERRIDE | OVERRIDE |
| MEM_37S OVERRIDE | * | OVERRIDE | OVERRIDE | 0.09 MM OVERRIDE | 100 MIL OVERRIDE | OVERRIDE | OVERRIDE |
| MEM_85D OVERRIDE | * | OVERRIDE | OVERRIDE | 0.09 MM OVERRIDE | 100 MIL OVERRIDE | OVERRIDE | OVERRIDE |
| PCIE_85D OVERRIDE | * | OVERRIDE | OVERRIDE | 0.09 MM OVERRIDE | 10 MM OVERRIDE | OVERRIDE | OVERRIDE |
| USB_85D | TOP | | | 0.1 MM | 500 MIL | | |
| CPU_27P4S | BOTTOM | | | 0.23 MM | 100 MIL | | |
| USB3_85D | TOP | | | 0.1 MM | 500 MIL | | |
| USB3_85D | ISL10 | | | 0.075 MM | | | 0.090 MM |
| DP_85D | ISL9 | | | 0.075 MM | | | 0.090 MM |
| PCIE_85D | ISL10 | | | 0.075 MM | | | 0.090 MM |

DDR3 Loaded Segment Constraint Relaxations
Alternate single ended and differential impedances between devices.

| NET_PHYSICAL_TYPE | AREA_TYPE | PHYSICAL_RULE_SET |
|-------------------|-----------|-------------------|
| MEM_37S | BGA_MEM | MEM_50S |
| MEM_40S | BGA_MEM | MEM_50S |
| MEM_72D | BGA_MEM | MEM_85D |

Graphics ,SATA Constraint Relaxations
Alternate diffpair width/gap through BGA fanout areas (95-ohm diff)

| NET_PHYSICAL_TYPE | AREA_TYPE | PHYSICAL_RULE_SET |
|-------------------|-----------|-------------------|
| DP_85D | BGA | 100_DIFF_BGA |
| SATA_90D | BGA | 100_DIFF_BGA |
| CLK_PCIE_90D | BGA | 100_DIFF_BGA |

Memory Constraint Relaxations

Allow 0.127 mm necks for >0.127 mm lines for ARD fanout.

| PHYSICAL_RULE_SET | LAYER | ALLOW ROUTE ON LAYER? | MINIMUM LINE WIDTH | MINIMUM NECK WIDTH | MAXIMUM NECK LENGTH | DIFFPAIR PRIMARY GAP | DIFFPAIR NECK GAP |
|-------------------|--------|-----------------------|--------------------|--------------------|---------------------|----------------------|-------------------|
| MEM_72D | BOTTOM | | | 0.127 MM | 6.35 MM | | |
| MEM_85D | TOP | | | 0.1 MM | 6.35 MM | | |

D1 Specific Net Properties

| ELECTRICAL_CONSTRAINT_SET | PHYSICAL | NET_TYPE | SPACING |
|---------------------------|----------------|----------|------------------------|
| SENSE_DIFFPAIR | THERM_1T01_55S | THERM | CPUTHMSNS D2 P |
| SENSE_DIFFPAIR | THERM_1T01_55S | THERM | CPUTHMSNS D2 N |
| SENSE_DIFFPAIR | THERM_1T01_55S | THERM | CPU THERMD P |
| SENSE_DIFFPAIR | THERM_1T01_55S | THERM | CPU THERMD N |
| SENSE_DIFFPAIR | THERM_1T01_55S | THERM | GPUTHMSNS D P |
| SENSE_DIFFPAIR | THERM_1T01_55S | THERM | GPUTHMSNS D N |
| SENSE_DIFFPAIR | THERM_1T01_55S | THERM | GPU TDIODE P |
| SENSE_DIFFPAIR | THERM_1T01_55S | THERM | GPU TDIODE N |
| SENSE_DIFFPAIR | THERM_1T01_55S | THERM | TBT THERMD P |
| SENSE_DIFFPAIR | THERM_1T01_55S | THERM | TBT THERMD N |
| SENSE_DIFFPAIR | THERM_1T01_55S | THERM | DDR3THMSNS D1 P |
| SENSE_DIFFPAIR | THERM_1T01_55S | THERM | DDR3THMSNS D1 N |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | CPUVCCIOS0 CS P |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | CPUVCCIOS0 CS N |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | CPU_VDDQ_SENSE_P |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | CPU_VDDQ_SENSE_N |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | ISNS LCD PANEL P |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | ISNS LCD PANEL N |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | ISNS 1V35 S3 MEM P |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | ISNS 1V35 S3 MEM N |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | ISNS SSD P |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | ISNS SSD N |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | ISNS 3V3 S0 SSD R P |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | ISNS 3V3 S0 SSD R N |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | ISNS WLAN P |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | ISNS WLAN N |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | ISNS LCDBKLT P |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | ISNS LCDBKLT N |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | ISNS TBT P |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | ISNS TBT N |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | ISNS 1V35 S3 MEM R P |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | ISNS 1V35 S3 MEM R N |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | VCCSA0 CS P |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | VCCSA0 CS N |
| HDMI_CLK | HDMI_90D | HDMI | HDMI IG CLK C P |
| HDMI_CLK | HDMI_90D | HDMI | HDMI IG CLK C N |
| HDMI_DATA | HDMI_90D | HDMI | HDMI IG DATA C P<2..0> |
| HDMI_DATA | HDMI_90D | HDMI | HDMI IG DATA C N<2..0> |


D1 Specific Net Properties

| ELECTRICAL_CONSTRAINT_SET | PHYSICAL | NET_TYPE | SPACING |
|---------------------------|----------------|----------|------------------------|
| PCIE_CLK100M_AP | CLK_PCIE_90D | CLK_PCIE | PCIE_CLK100M_AP_CONN_P |
| PCIE_CLK100M_AP | CLK_PCIE_90D | CLK_PCIE | PCIE_CLK100M_AP_CONN_N |
| | 1T01_DIFFPAIR | | CHGR_CSI_R_P |
| | 1T01_DIFFPAIR | | CHGR_CSI_R_N |
| | 1T01_DIFFPAIR | | CHGR_CSO_R_P |
| | 1T01_DIFFPAIR | | CHGR_CSO_R_N |
| USB_RT | USB_85D | USB | USB_BT_CONN_P |
| USB_RT | USB_85D | USB | USB_BT_CONN_N |
| USB_RT | USB_85D | USB | USB_BT_WAKE_P |
| USB_RT | USB_85D | USB | USB_BT_WAKE_N |
| AUDIO_DIFFPAIR | DIFFPAIR | AUDIO | SPKRCONN_SL_OUT_P |
| AUDIO_DIFFPAIR | DIFFPAIR | AUDIO | SPKRCONN_SL_OUT_N |
| AUDIO_DIFFPAIR | DIFFPAIR | AUDIO | SPKRCONN_SR_OUT_P |
| AUDIO_DIFFPAIR | DIFFPAIR | AUDIO | SPKRCONN_SR_OUT_N |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | SPKRCONN_L_OUT_P |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | SPKRCONN_L_OUT_N |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | SPKRCONN_R_OUT_P |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | SPKRCONN_R_OUT_N |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | CPUIMVP_ISNSG_P |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | CPUIMVP_ISNSG_N |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | CPUIMVP_ISNSIG_P |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | CPUIMVP_ISNSIG_N |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | CPUIMVP_ISNS2G_P |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | CPUIMVP_ISNS2G_N |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | CPUIMVP_ISUMG_R_P |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | CPUIMVP_ISUMG_R_N |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | ISNS_HS_OTHER_P |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | ISNS_HS_OTHER_N |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | ISNS_HS_COMPUTING_P |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | ISNS_HS_COMPUTING_N |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | CPUIMVP_ISNS_P |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | CPUIMVP_ISNS_N |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | CPUIMVP_ISNS1_P |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | CPUIMVP_ISNS1_N |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | CPUIMVP_ISNS2_P |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | CPUIMVP_ISNS2_N |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | CPUIMVP_ISUM_R_P |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | CPUIMVP_ISUM_R_N |
| SENSE_DIFFPAIR | SENSE_1T01_55S | SENSE | AUD_LO1_L_P |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | AUD_LO1_L_N |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | AUD_LO1_R_P |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | AUD_LO1_R_N |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | AUD_LO2_L_P |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | AUD_LO2_L_N |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | AUD_LO2_R_P |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | AUD_LO2_R_N |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | AUD_MIC_INL_P |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | AUD_MIC_INL_N |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | AUD_SPKRAMP_LIN_P |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | AUD_SPKRAMP_LIN_N |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | AUD_SPKRAMP_RIN_P |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | AUD_SPKRAMP_RIN_N |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | AUD_SPKRAMP_LSUBIN_P |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | AUD_SPKRAMP_LSUBIN_N |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | AUD_SPKRAMP_RSUBIN_P |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | AUD_SPKRAMP_RSUBIN_N |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | RSUBIN_P |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | RSUBIN_N |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | LSUBIN_P |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | LSUBIN_N |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | SPKRAMP_LIN_P |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | SPKRAMP_LIN_N |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | SPKRAMP_RIN_P |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | SPKRAMP_RIN_N |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | HS_MIC_HI_RC |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | HS_MIC_LO_RC |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | HS_MIC_HI |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | HS_MIC_LO |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | SPKRCONN_L_OUT_P |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | SPKRCONN_L_OUT_N |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | SPKRCONN_R_OUT_P |
| AUDIO_DIFFPAIR | AUDIODIFF | AUDIO | SPKRCONN_R_OUT_N |
| USB_TPAD | USB_85D | USB | USB_TPAD_R_P |
| USB_TPAD | USB_85D | USB | USB_TPAD_R_N |
| USB_HUB | USB_85D | USB | PU_USBHUB_DN4_P |
| USB_HUB | USB_85D | USB | PU_USBHUB_DN4_N |
| | SB_POWER | | PP3V3_S5 |
| | SB_POWER | | PP3V3_S0 |
| | SB_POWER | | PP1V5_S3RS0_CPUDDR |
| | GND | | GND |

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SYNC DATE=07/29/2011

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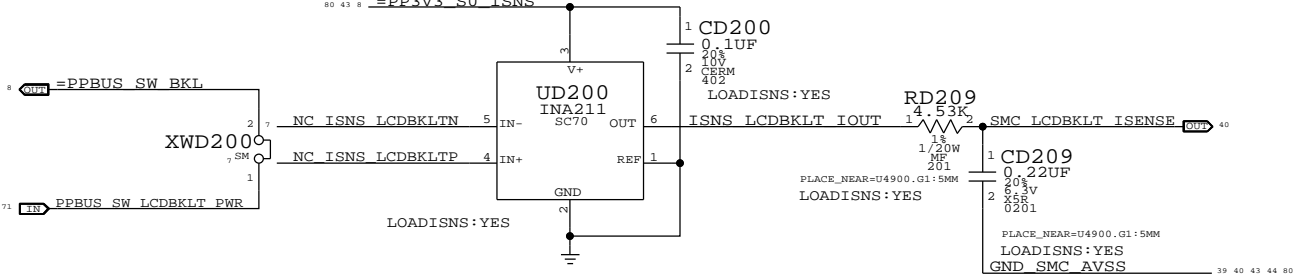
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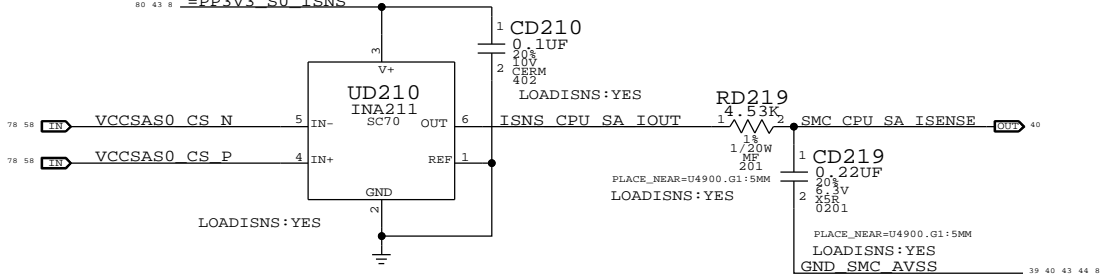
LCD Backlight Current Sense (IBLC)

Gain: 500x. EDP: 0.9 A
Rsense: 0.005 (RD200 / XWD200)
V across Rsense: 4.5 mV
SMC AD: 17



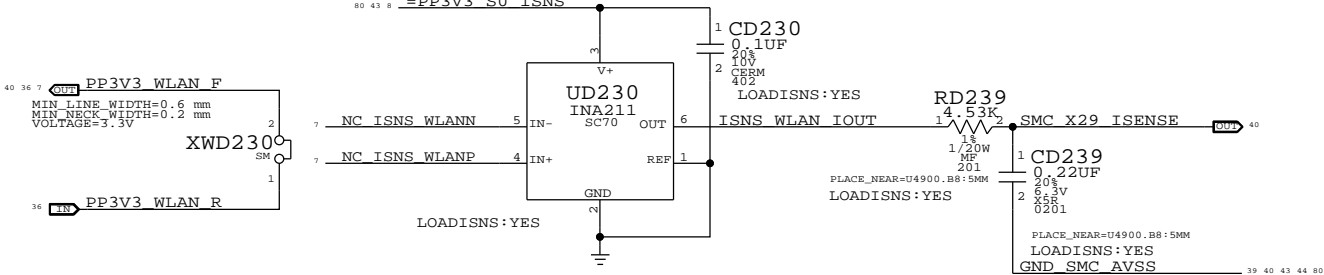
CPU SA Current Sense (IC2C)

Gain: 500x. EDP: 6 A
Rsense: 0.001 (R7140)
V across Rsense: 6 mV
SMC AD: 13



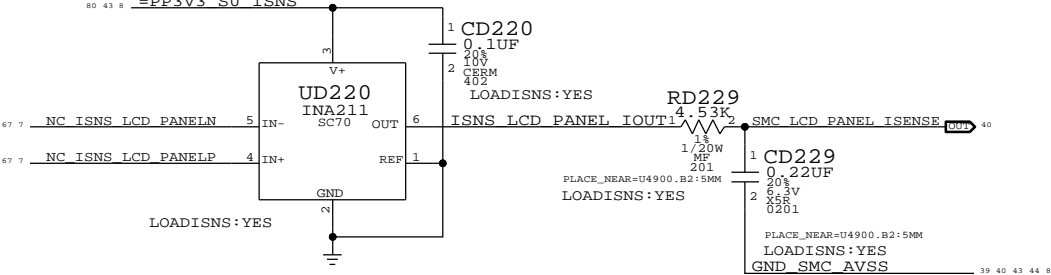
Airport X29 Current Sense (IAPC)

Gain: 500x. EDP: 1.06 A
Rsense: 0.005 (RD230 / XWD230)
V across Rsense: 5.3 mV
SMC AD: 22



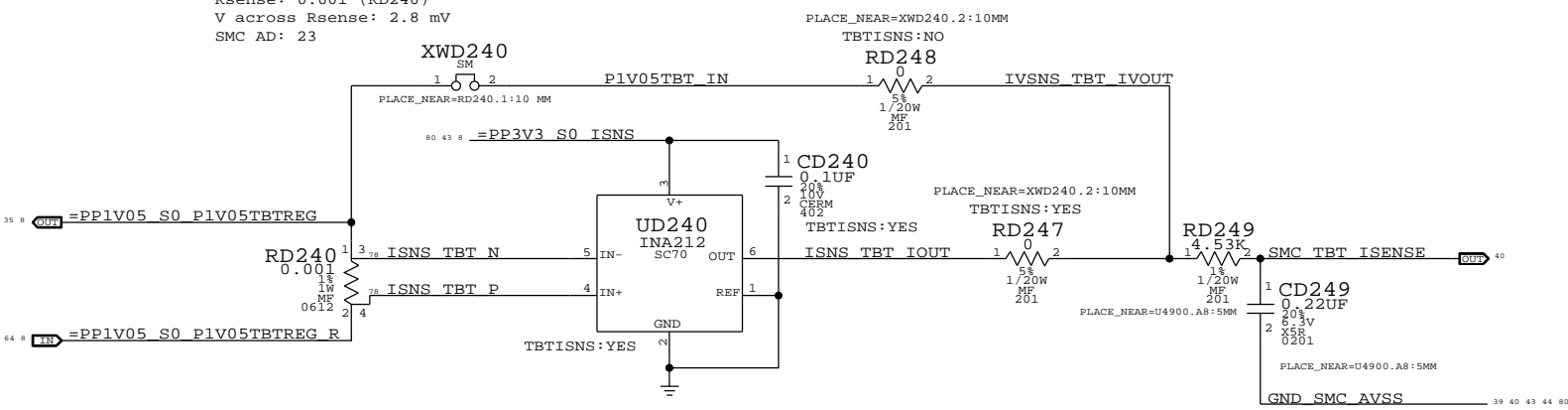
LCD Panel Current Sense (ILDC)

Gain: 500x. EDP: 1 A
Rsense: 0.005 (R9020, XW9020)
V across Rsense: 5 mV
SMC AD: 15



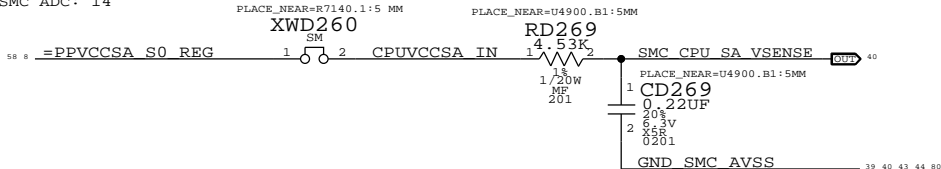
Thunderbolt TBT Current/Voltage Sense (IHSP/VHSP)

Gain: 1000x. EDP: 2.8 A
Rsense: 0.001 (RD240)
V across Rsense: 2.8 mV
SMC AD: 23



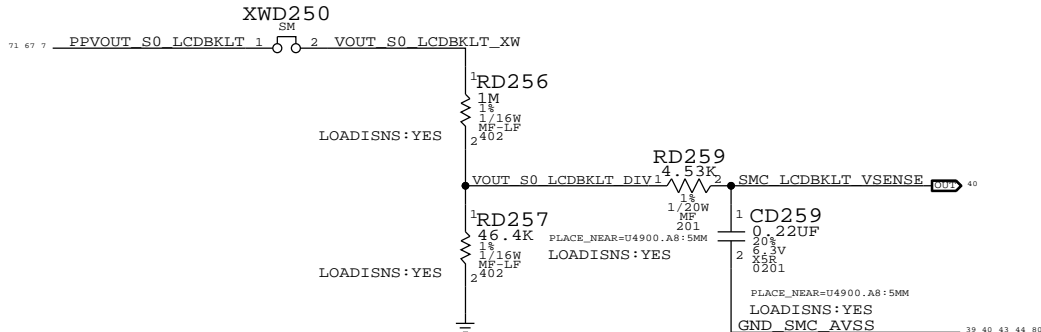
CPU SA Voltage Sense (VC2C)

Gain: 1x
SMC ADC: 14



LCD Backlight Voltage Sense (VBLC)

Gain: 0.04434



| PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION |
|-------------|-----|-------------------------------------|-------------------|----------|-------------|
| 117S0008 | 3 | RES,MTL FILM,100K,1/16W,0201,SMD,LF | CD209,CD219,CD229 | | LOADISNS:NO |
| 117S0008 | 3 | RES,MTL FILM,100K,1/16W,0201,SMD,LF | CD239,CD259 | | LOADISNS:NO |

| | |
|---|-----------|
| Power Sensors: Extended | |
| Apple Inc. | |
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| DRAWING NUMBER <SCH_NUM> REVISION <E4LABEL> BRANCH <BRANCH> PAGE 132 OF 132 SHEET 80 OF 80 | SIZE D |