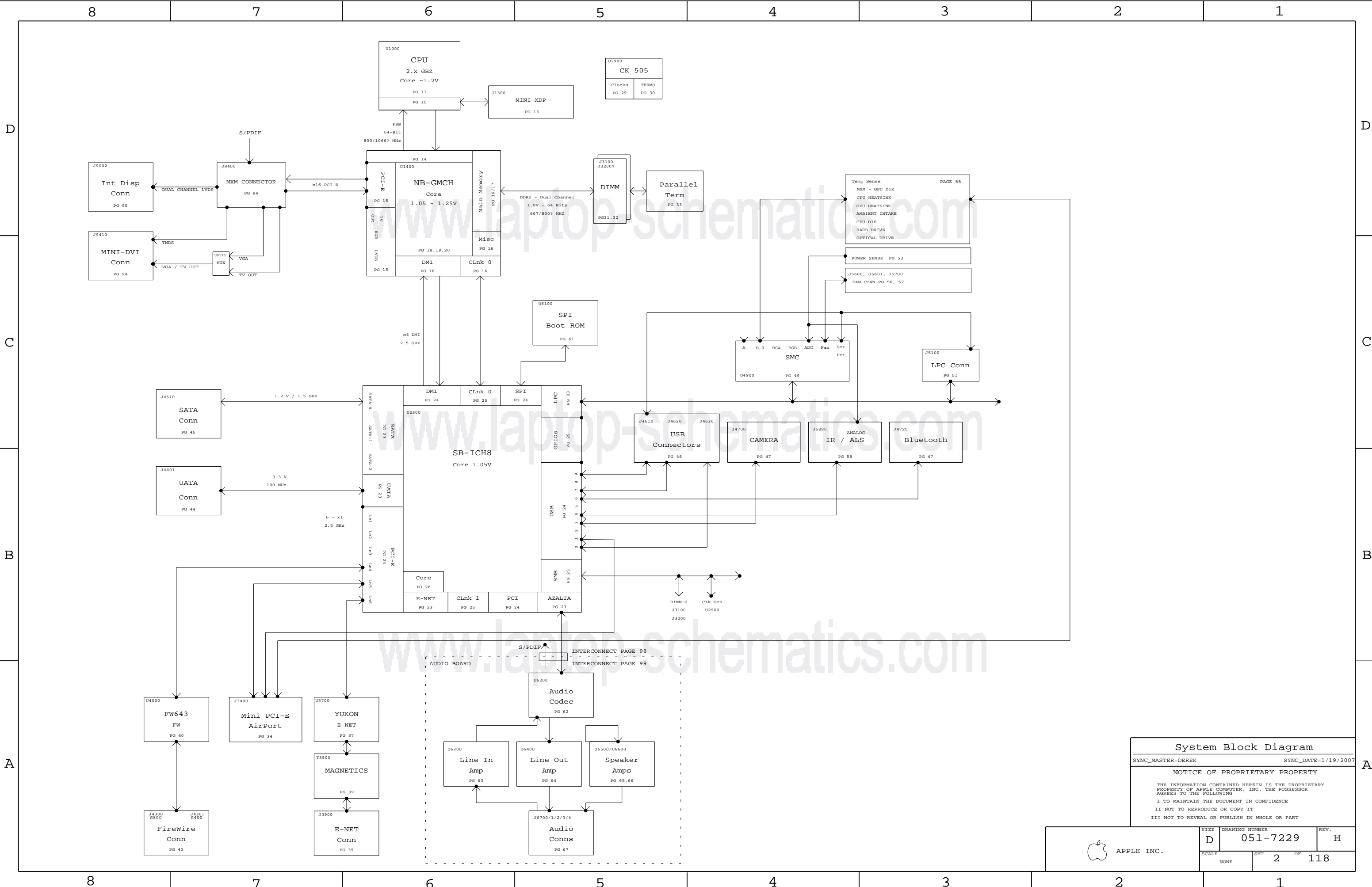


| | | | | | | | | | | | | | | | | | |
|--|--|---|--|---|--|---|--|---|--|---|--|-----|------|--------|-----------------------|-----------------|------------------|
| 8 | | 7 | | 6 | | 5 | | 4 | | 3 | | 2 | | 1 | | | |
| 1. ALL RESISTANCE VALUES ARE IN OHMS, 0.1 WATT +/- 5%. | | | | | | | | | | | | REV | ZONE | ECN | DESCRIPTION OF CHANGE | CK APPD DATE | ENG APPD DATE |
| 2. ALL CAPACITANCE VALUES ARE IN MICROFARADS. | | | | | | | | | | | | H | | 559947 | PRODUCTION RELEASED | 01/24/08 | ? |
| 3. ALL CRYSTALS & OSCILLATOR VALUES ARE IN HERTZ. | | | | | | | | | | | | | | | | | |
| M78-PVT | | | | | | | | | | | | | | | | | |
| 1/24/2008 | | | | | | | | | | | | | | | | | |
| D | | | | | | | | | | | | | | | | | |
| D | | | | | | | | | | | | | | | | | |
| C | | | | | | | | | | | | | | | | | |
| C | | | | | | | | | | | | | | | | | |
| B | | | | | | | | | | | | | | | | | |
| B | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |
| A | | | | | | | | | | | | | | | | | |



System Block Diagram

SYNC_MASTER=DEREK SYNC_DATE=1/19/2007

NOTICE OF PROPRIETARY PROPERTY

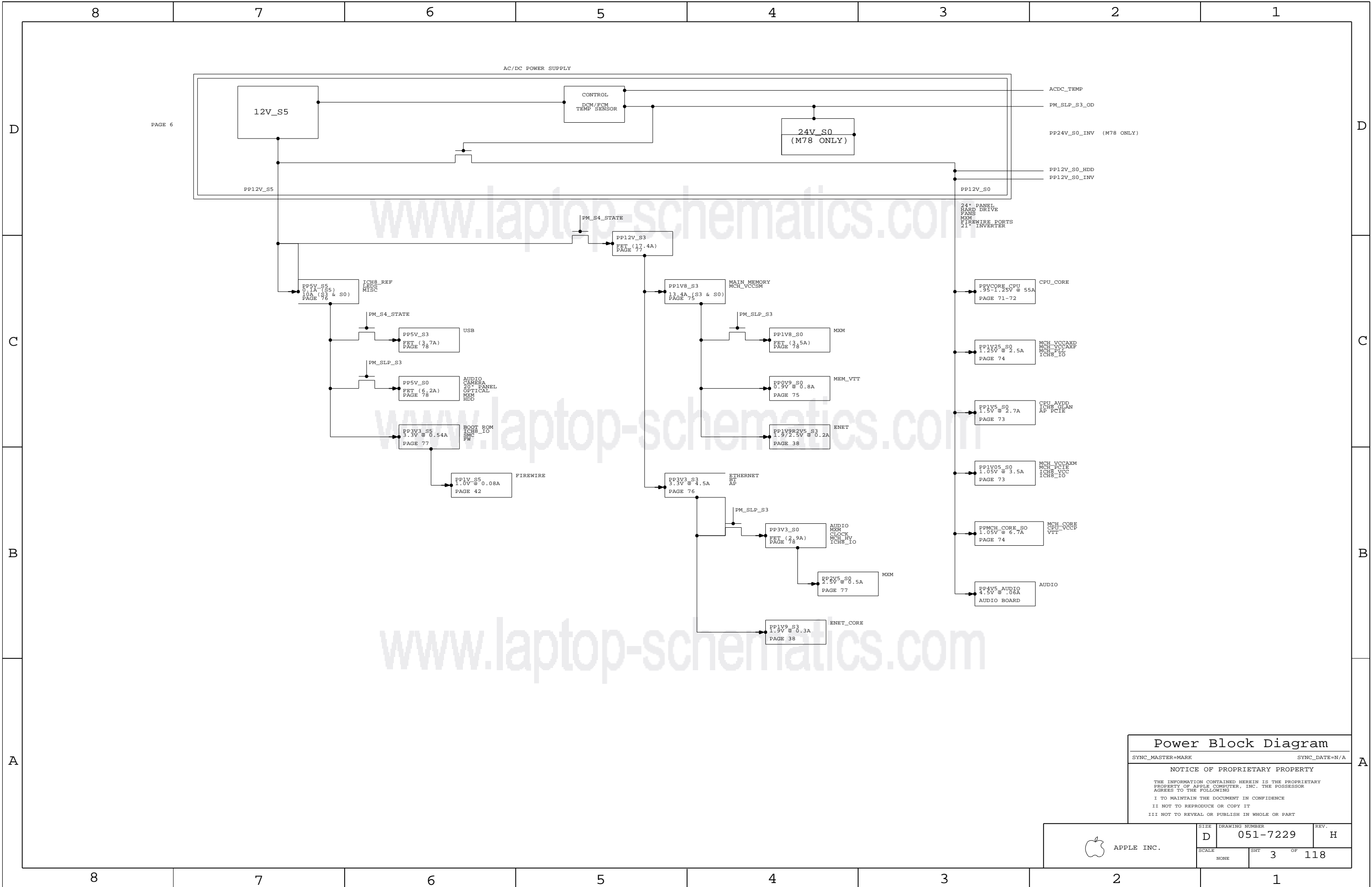
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING




I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

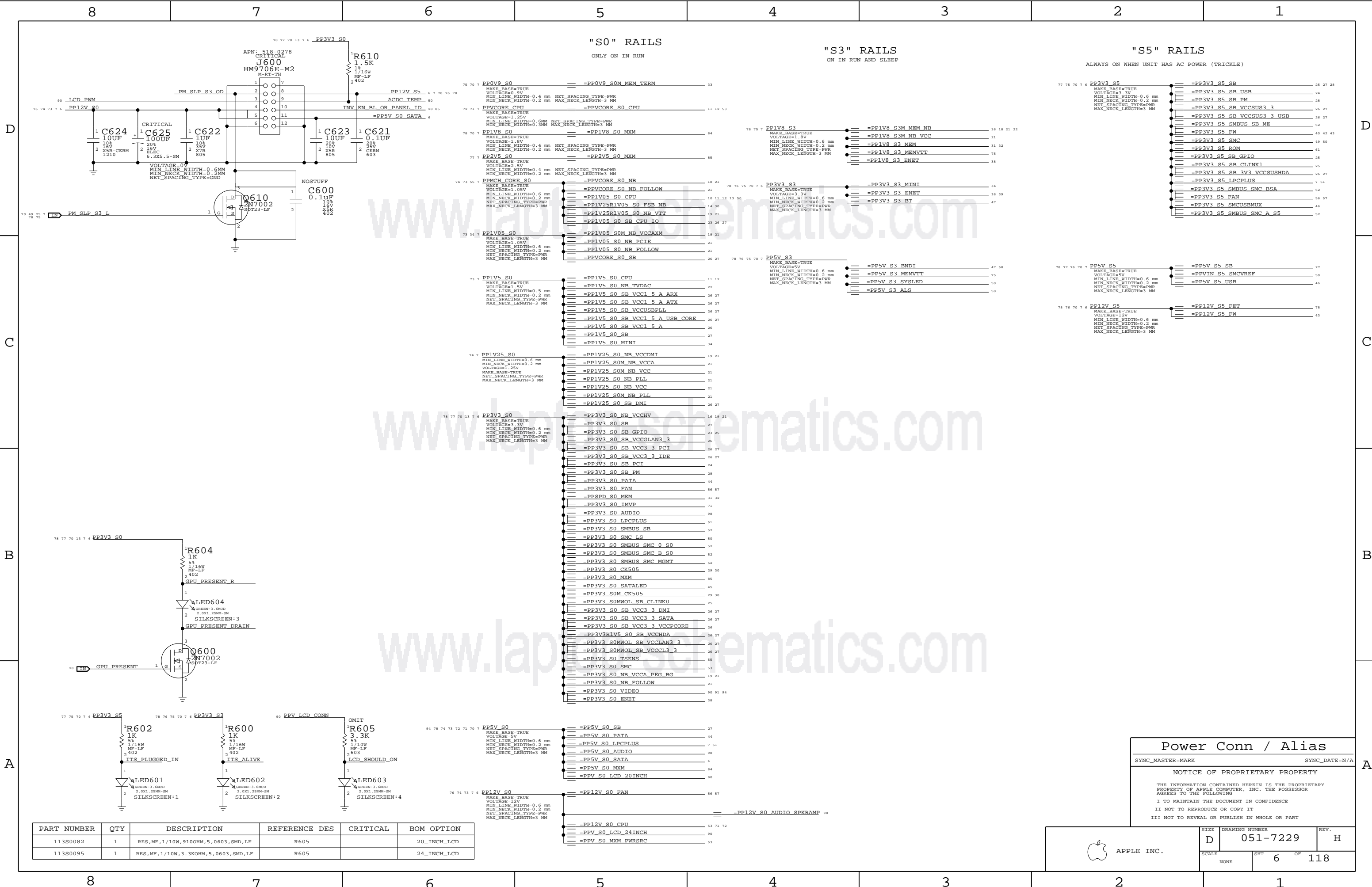
II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

| | | | |
|------------|------|----------------|------|
| APPLE INC. | SIZE | DRAWING NUMBER | REV. |
| | D | 051-7229 | H |
| SCALE | | SHT | OF |
| NONE | | 2 | 118 |



| 8 | | 7 | | 6 | | 5 | | 4 | | 3 | | 2 | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|---|---|--|--|--|---|--|---|--|---|--|---|--|-------------|---------------------------|-------------------------|-------------------------|------------|--|----------|---|---|-------------------------|-------------|------------|-----------------------|---|-------------------------|--|--|----------------|-------------|---|--------------------------|----------|-------------|-----------------------|----------|---|--------------------------|--|-------------|----------|----------|---|-------------------------------------|----------|-----------------------|----------|----------|---|--|----------|-------------|----------|----------|---|-------------------------------|-------------------------------|------------|----------|----------|--|----------|-------------------|---------------|--|----------|---|----------|-------|----------|--|----------|---|-----------|---|----------|--|----------|---|-----------|-------------|----------|--|
| D | BOM Variants | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table><tr><th>BOM NUMBER</th><th colspan="4">BOM NAME</th><th colspan="6">BOM OPTIONS</th></tr><tr><td>630-7977</td><td colspan="4">PCBA,MLB,M78,CTO,2.8G</td><td colspan="6">24_INCH_LCD,2P8GHZ_CPU,BASIC,CR_E,V8</td></tr><tr><td>630-7976</td><td colspan="4">PCBA,MLB,M78,BTR,2.4G</td><td colspan="6">24_INCH_LCD,2P4GHZ_CPU,BASIC,CR_STD,V6</td></tr><tr><td>630-7875</td><td colspan="4">PCBA,MLB,M78,CTO,2.2G</td><td colspan="6">24_INCH_LCD,2P2GHZ_CPU,BASIC,CR_STD,V6</td></tr><tr><td>607-0429</td><td colspan="4">M78 DEVELOPMENT</td><td colspan="6">CPU_TDIODE,DEVELOPMENT,XDP_CONN,LIT_IO,LPCPLUS,MXM_PWR_SENSE</td></tr></table> | | | | | | | | | | | | | | | BOM NUMBER | BOM NAME | | | | BOM OPTIONS | | | | | | 630-7977 | PCBA,MLB,M78,CTO,2.8G | | | | 24_INCH_LCD,2P8GHZ_CPU,BASIC,CR_E,V8 | | | | | | 630-7976 | PCBA,MLB,M78,BTR,2.4G | | | | 24_INCH_LCD,2P4GHZ_CPU,BASIC,CR_STD,V6 | | | | | | 630-7875 | PCBA,MLB,M78,CTO,2.2G | | | | 24_INCH_LCD,2P2GHZ_CPU,BASIC,CR_STD,V6 | | | | | | 607-0429 | M78 DEVELOPMENT | | | | CPU_TDIODE,DEVELOPMENT,XDP_CONN,LIT_IO,LPCPLUS,MXM_PWR_SENSE | | | | | | | | | | | | | | | | | | | | | | |
| | BOM NUMBER | BOM NAME | | | | BOM OPTIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 630-7977 | PCBA,MLB,M78,CTO,2.8G | | | | 24_INCH_LCD,2P8GHZ_CPU,BASIC,CR_E,V8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 630-7976 | PCBA,MLB,M78,BTR,2.4G | | | | 24_INCH_LCD,2P4GHZ_CPU,BASIC,CR_STD,V6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 630-7875 | PCBA,MLB,M78,CTO,2.2G | | | | 24_INCH_LCD,2P2GHZ_CPU,BASIC,CR_STD,V6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 607-0429 | M78 DEVELOPMENT | | | | CPU_TDIODE,DEVELOPMENT,XDP_CONN,LIT_IO,LPCPLUS,MXM_PWR_SENSE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table><tr><td>630-7979</td><td colspan="4">PCBA,MLB,M72,CTO,2.4G</td><td colspan="6">20_INCH_LCD,2P4GHZ_CPU,BASIC,CR_STD,V6</td></tr><tr><td>630-7978</td><td colspan="4">PCBA,MLB,M72,BTR,2.2G</td><td colspan="6">20_INCH_LCD,2P2GHZ_CPU,BASIC,CR_STD,V6</td></tr><tr><td>630-7874</td><td colspan="4">PCBA,MLB,M72,GD,2.0G</td><td colspan="6">20_INCH_LCD,2P0GHZ_CPU,BASIC,CR_STD,V6</td></tr><tr><td>607-0462</td><td colspan="4">M72 DEVELOPMENT</td><td colspan="6">CPU_TDIODE,DEVELOPMENT,ITP_CONN,LIT_IO,LPCPLUS,MXM_PWR_SENSE</td></tr></table> | | | | | | | | | | | | | | | 630-7979 | PCBA,MLB,M72,CTO,2.4G | | | | 20_INCH_LCD,2P4GHZ_CPU,BASIC,CR_STD,V6 | | | | | | 630-7978 | PCBA,MLB,M72,BTR,2.2G | | | | 20_INCH_LCD,2P2GHZ_CPU,BASIC,CR_STD,V6 | | | | | | 630-7874 | PCBA,MLB,M72,GD,2.0G | | | | 20_INCH_LCD,2P0GHZ_CPU,BASIC,CR_STD,V6 | | | | | | 607-0462 | M72 DEVELOPMENT | | | | CPU_TDIODE,DEVELOPMENT,ITP_CONN,LIT_IO,LPCPLUS,MXM_PWR_SENSE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 630-7979 | PCBA,MLB,M72,CTO,2.4G | | | | 20_INCH_LCD,2P4GHZ_CPU,BASIC,CR_STD,V6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 630-7978 | PCBA,MLB,M72,BTR,2.2G | | | | 20_INCH_LCD,2P2GHZ_CPU,BASIC,CR_STD,V6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 630-7874 | PCBA,MLB,M72,GD,2.0G | | | | 20_INCH_LCD,2P0GHZ_CPU,BASIC,CR_STD,V6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 607-0462 | M72 DEVELOPMENT | | | | CPU_TDIODE,DEVELOPMENT,ITP_CONN,LIT_IO,LPCPLUS,MXM_PWR_SENSE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BOM GROUPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table><tr><th>BOM GROUP</th><th colspan="14">BOM OPTIONS</th></tr><tr><td>BASIC</td><td colspan="14">5V1V8REG_SKIP,ALTERNATE,COMMON,ITP/XDP,MXM_ROM,NBCFG_PEG_REVERSE,YUKON_ULTRA</td></tr><tr><td>V6</td><td colspan="14">LOW_TDP</td></tr><tr><td>V8</td><td colspan="14">HIGH_TDP</td></tr></table> | | | | | | | | | | | | | | | BOM GROUP | BOM OPTIONS | | | | | | | | | | | | | | BASIC | 5V1V8REG_SKIP,ALTERNATE,COMMON,ITP/XDP,MXM_ROM,NBCFG_PEG_REVERSE,YUKON_ULTRA | | | | | | | | | | | | | | V6 | LOW_TDP | | | | | | | | | | | | | | V8 | HIGH_TDP | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BOM GROUP | BOM OPTIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BASIC | 5V1V8REG_SKIP,ALTERNATE,COMMON,ITP/XDP,MXM_ROM,NBCFG_PEG_REVERSE,YUKON_ULTRA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V6 | LOW_TDP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V8 | HIGH_TDP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bar Code Labels / EEE #'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></table> | | | | | | | | | | | | | | | PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | 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></table> | | | | | | | | | | | | | | | PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | COMMON | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table><tr><th>PART#</th><th>QTY</th><th>DESCRIPTION</th><th>REFERENCE DESIGNATOR(S)</th><th>CRITICAL</th><th>BOM OPTION</th></tr><tr><td>338S0433</td><td>1</td><td>IC,NB,CRESTLINE,PM,C0,PRQ</td><td>U1400</td><td>CRITICAL</td><td></td></tr><tr><td>338S0434</td><td>1</td><td>IC,SB,ICH8M,B1,PRQ</td><td>U2300</td><td>CRITICAL</td><td></td></tr><tr><td>359S0130</td><td>1</td><td>CK505 - SILEGO SLG2AP101</td><td>U2900</td><td>CRITICAL</td><td></td></tr><tr><td>820-2149</td><td>1</td><td>PCB,FAB,IO ALIGNMENT,M72</td><td>IO1</td><td>CRITICAL</td><td></td></tr><tr><td>069-2014</td><td>1</td><td>M72/M78 22UF CAP INTERCHANGEABILITY</td><td>DOC1</td><td></td><td></td></tr><tr><td>825-6447</td><td>1</td><td>MLB LABEL,48.0X4.8</td><td>X14</td><td>CRITICAL</td><td></td></tr><tr><td>376S0555</td><td>5</td><td>MOSFET NCHANNEL 25A 30V 3.5MM</td><td>Q7101,Q7103,Q7204,Q7521,Q7561</td><td>CRITICAL</td><td></td></tr><tr><td>152-0099</td><td>3</td><td>INDUCTOR</td><td>L7100,L7101,L7200</td><td>CRITICAL</td><td></td></tr><tr><td>152-0102</td><td>1</td><td>INDUCTOR</td><td>L7680</td><td>CRITICAL</td><td></td></tr><tr><td>124-0363</td><td>8</td><td>CAP,470UF</td><td>C7109,C7154,C7254,C7340,C7440,C7480,C7530,C7532</td><td>CRITICAL</td><td></td></tr><tr><td>124-0339</td><td>2</td><td>CAP,680UF</td><td>C7490,C7491</td><td>CRITICAL</td><td></td></tr></table> | | | | | | | | | | | | | | | PART# | QTY | DESCRIPTION | REFERENCE DESIGNATOR(S) | CRITICAL | BOM OPTION | 338S0433 | 1 | IC,NB,CRESTLINE,PM,C0,PRQ | U1400 | CRITICAL | | 338S0434 | 1 | IC,SB,ICH8M,B1,PRQ | U2300 | CRITICAL | | 359S0130 | 1 | CK505 - SILEGO SLG2AP101 | U2900 | CRITICAL | | 820-2149 | 1 | PCB,FAB,IO ALIGNMENT,M72 | IO1 | CRITICAL | | 069-2014 | 1 | M72/M78 22UF CAP INTERCHANGEABILITY | DOC1 | | | 825-6447 | 1 | MLB LABEL,48.0X4.8 | X14 | CRITICAL | | 376S0555 | 5 | MOSFET NCHANNEL 25A 30V 3.5MM | Q7101,Q7103,Q7204,Q7521,Q7561 | CRITICAL | | 152-0099 | 3 | INDUCTOR | L7100,L7101,L7200 | CRITICAL | | 152-0102 | 1 | INDUCTOR | L7680 | CRITICAL | | 124-0363 | 8 | CAP,470UF | C7109,C7154,C7254,C7340,C7440,C7480,C7530,C7532 | CRITICAL | | 124-0339 | 2 | CAP,680UF | C7490,C7491 | CRITICAL | |
| | PART# | QTY | DESCRIPTION | REFERENCE DESIGNATOR(S) | CRITICAL | BOM OPTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 338S0433 | 1 | IC,NB,CRESTLINE,PM,C0,PRQ | U1400 | CRITICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 338S0434 | 1 | IC,SB,ICH8M,B1,PRQ | U2300 | CRITICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 359S0130 | 1 | CK505 - SILEGO SLG2AP101 | U2900 | CRITICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 820-2149 | 1 | PCB,FAB,IO ALIGNMENT,M72 | IO1 | CRITICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 069-2014 | 1 | M72/M78 22UF CAP INTERCHANGEABILITY | DOC1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 825-6447 | 1 | MLB LABEL,48.0X4.8 | X14 | CRITICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 376S0555 | 5 | MOSFET NCHANNEL 25A 30V 3.5MM | Q7101,Q7103,Q7204,Q7521,Q7561 | CRITICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 152-0099 | 3 | INDUCTOR | L7100,L7101,L7200 | CRITICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 152-0102 | 1 | INDUCTOR | L7680 | CRITICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 124-0363 | 8 | CAP,470UF | C7109,C7154,C7254,C7340,C7440,C7480,C7530,C7532 | CRITICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 124-0339 | 2 | CAP,680UF | C7490,C7491 | CRITICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table><tr><th>PART#</th><th>QTY</th><th>DESCRIPTION</th><th>REFERENCE DESIGNATOR(S)</th><th>CRITICAL</th><th>BOM OPTION</th></tr><tr><td>051-7229</td><td>1</td><td>PCB,SCHEM,MLB,M78</td><td>SCH1</td><td></td><td>24_INCH_LCD</td></tr><tr><td>820-2110</td><td>1</td><td>PCB,FAB,MLB,M78,HF</td><td>MLB1</td><td></td><td>24_INCH_LCD</td></tr></table> | | | | | | | | | | | | | | | PART# | QTY | DESCRIPTION | REFERENCE DESIGNATOR(S) | CRITICAL | BOM OPTION | 051-7229 | 1 | PCB,SCHEM,MLB,M78 | SCH1 | | 24_INCH_LCD | 820-2110 | 1 | PCB,FAB,MLB,M78,HF | MLB1 | | 24_INCH_LCD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PART# | QTY | DESCRIPTION | REFERENCE DESIGNATOR(S) | CRITICAL | BOM OPTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 051-7229 | 1 | PCB,SCHEM,MLB,M78 | SCH1 | | 24_INCH_LCD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 820-2110 | 1 | PCB,FAB,MLB,M78,HF | MLB1 | | 24_INCH_LCD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table><tr><th>PART#</th><th>QTY</th><th>DESCRIPTION</th><th>REFERENCE DESIGNATOR(S)</th><th>CRITICAL</th><th>BOM OPTION</th></tr><tr><td>341T0049</td><td>1</td><td>IC,SMC,M78</td><td>U4900</td><td>CRITICAL</td><td>24_INCH_LCD</td></tr><tr><td>114S0308</td><td>1</td><td>RES,8.45K,0402,1%,1/16W,LF</td><td>R7117</td><td></td><td>24_INCH_LCD</td></tr><tr><td>132S0010</td><td>1</td><td>CAP,CER,390PF,10%,50V,0402</td><td>C7113</td><td></td><td>24_INCH_LCD</td></tr><tr><td>132S0178</td><td>1</td><td>CAP,CER,0.47UF,10%,6.3V,0402</td><td>C7128</td><td></td><td>24_INCH_LCD</td></tr><tr><td>132S0082</td><td>1</td><td>CAP,CER,0.068UF,10%,16V,0402</td><td>C7134</td><td></td><td>24_INCH_LCD</td></tr><tr><td>335S0155</td><td>1</td><td>IC,2K I2C EEPROM,BLANK</td><td>U8570</td><td>CRITICAL</td><td>24_INCH_LCD</td></tr></table> | | | | | | | | | | | | | | | PART# | QTY | DESCRIPTION | REFERENCE DESIGNATOR(S) | CRITICAL | BOM OPTION | 341T0049 | 1 | IC,SMC,M78 | U4900 | CRITICAL | 24_INCH_LCD | 114S0308 | 1 | RES,8.45K,0402,1%,1/16W,LF | R7117 | | 24_INCH_LCD | 132S0010 | 1 | CAP,CER,390PF,10%,50V,0402 | C7113 | | 24_INCH_LCD | 132S0178 | 1 | CAP,CER,0.47UF,10%,6.3V,0402 | C7128 | | 24_INCH_LCD | 132S0082 | 1 | CAP,CER,0.068UF,10%,16V,0402 | C7134 | | 24_INCH_LCD | 335S0155 | 1 | IC,2K I2C EEPROM,BLANK | U8570 | CRITICAL | 24_INCH_LCD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PART# | QTY | DESCRIPTION | REFERENCE DESIGNATOR(S) | CRITICAL | BOM OPTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 341T0049 | 1 | IC,SMC,M78 | U4900 | CRITICAL | 24_INCH_LCD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 114S0308 | 1 | RES,8.45K,0402,1%,1/16W,LF | R7117 | | 24_INCH_LCD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 132S0010 | 1 | CAP,CER,390PF,10%,50V,0402 | C7113 | | 24_INCH_LCD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 132S0178 | 1 | CAP,CER,0.47UF,10%,6.3V,0402 | C7128 | | 24_INCH_LCD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 132S0082 | 1 | CAP,CER,0.068UF,10%,16V,0402 | C7134 | | 24_INCH_LCD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 335S0155 | 1 | IC,2K I2C EEPROM,BLANK | U8570 | CRITICAL | 24_INCH_LCD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table><tr><th>PART#</th><th>QTY</th><th>DESCRIPTION</th><th>REFERENCE DESIGNATOR(S)</th><th>CRITICAL</th><th>BOM OPTION</th></tr><tr><td>337S3489</td><td>1</td><td>IC,MDC,SR,E1,PRQ,2.8G,55W,800FSB,4M,PGA</td><td>CPU</td><td>CRITICAL</td><td>2P8GHZ_CPU</td></tr><tr><td>337S3557</td><td>1</td><td>IC,MDC,SR,G0,PRQ,2.8G,55W,800FSB,4M,PGA</td><td>CPU</td><td>CRITICAL</td><td>2P8GHZ_G0_CPU</td></tr><tr><td>337S3495</td><td>1</td><td>IC,MDC,SR,E1,PRQ,2.6G,45W,800FSB,4M,PGA</td><td>CPU</td><td>CRITICAL</td><td>2P6GHZ_CPU</td></tr><tr><td>337S3468</td><td>1</td><td>IC,MDC,SR,E1,PRQ,2.4G,35W,800FSB,4M,PGA</td><td>CPU</td><td>CRITICAL</td><td>2P4GHZ_CPU</td></tr><tr><td>337S3505</td><td>1</td><td>IC,MDC,SR,G0,PRQ,2.4G,35W,800FSB,4M,PGA</td><td>CPU</td><td>CRITICAL</td><td>2P4GHZ_G0_CPU</td></tr><tr><td>337S3467</td><td>1</td><td>IC,MDC,SR,E1,PRQ,2.2G,35W,800FSB,4M,PGA</td><td>CPU</td><td>CRITICAL</td><td>2P2GHZ_CPU</td></tr><tr><td>337S3466</td><td>1</td><td>IC,MDC,SR,E1,PRQ,2.0G,35W,800FSB,4M,PGA</td><td>CPU</td><td>CRITICAL</td><td>2P0GHZ_CPU</td></tr><tr><td>337S3532</td><td>1</td><td>IC,MDC,SR,SLAMD,G0,PRQ,2.0/FS,8G,35W,PGA</td><td>CPU</td><td>CRITICAL</td><td>2P0GHZ_G0_CPU</td></tr></table> | | | | | | | | | | | | | | | PART# | QTY | DESCRIPTION | REFERENCE DESIGNATOR(S) | CRITICAL | BOM OPTION | 337S3489 | 1 | IC,MDC,SR,E1,PRQ,2.8G,55W,800FSB,4M,PGA | CPU | CRITICAL | 2P8GHZ_CPU | 337S3557 | 1 | IC,MDC,SR,G0,PRQ,2.8G,55W,800FSB,4M,PGA | CPU | CRITICAL | 2P8GHZ_G0_CPU | 337S3495 | 1 | IC,MDC,SR,E1,PRQ,2.6G,45W,800FSB,4M,PGA | CPU | CRITICAL | 2P6GHZ_CPU | 337S3468 | 1 | IC,MDC,SR,E1,PRQ,2.4G,35W,800FSB,4M,PGA | CPU | CRITICAL | 2P4GHZ_CPU | 337S3505 | 1 | IC,MDC,SR,G0,PRQ,2.4G,35W,800FSB,4M,PGA | CPU | CRITICAL | 2P4GHZ_G0_CPU | 337S3467 | 1 | IC,MDC,SR,E1,PRQ,2.2G,35W,800FSB,4M,PGA | CPU | CRITICAL | 2P2GHZ_CPU | 337S3466 | 1 | IC,MDC,SR,E1,PRQ,2.0G,35W,800FSB,4M,PGA | CPU | CRITICAL | 2P0GHZ_CPU | 337S3532 | 1 | IC,MDC,SR,SLAMD,G0,PRQ,2.0/FS,8G,35W,PGA | CPU | CRITICAL | 2P0GHZ_G0_CPU | | | | | | | | | | | | | | | | | | | |
| PART# | QTY | DESCRIPTION | REFERENCE DESIGNATOR(S) | CRITICAL | BOM OPTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 337S3489 | 1 | IC,MDC,SR,E1,PRQ,2.8G,55W,800FSB,4M,PGA | CPU | CRITICAL | 2P8GHZ_CPU | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 337S3557 | 1 | IC,MDC,SR,G0,PRQ,2.8G,55W,800FSB,4M,PGA | CPU | CRITICAL | 2P8GHZ_G0_CPU | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 337S3495 | 1 | IC,MDC,SR,E1,PRQ,2.6G,45W,800FSB,4M,PGA | CPU | CRITICAL | 2P6GHZ_CPU | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 337S3468 | 1 | IC,MDC,SR,E1,PRQ,2.4G,35W,800FSB,4M,PGA | CPU | CRITICAL | 2P4GHZ_CPU | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 337S3505 | 1 | IC,MDC,SR,G0,PRQ,2.4G,35W,800FSB,4M,PGA | CPU | CRITICAL | 2P4GHZ_G0_CPU | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 337S3467 | 1 | IC,MDC,SR,E1,PRQ,2.2G,35W,800FSB,4M,PGA | CPU | CRITICAL | 2P2GHZ_CPU | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 337S3466 | 1 | IC,MDC,SR,E1,PRQ,2.0G,35W,800FSB,4M,PGA | CPU | CRITICAL | 2P0GHZ_CPU | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 337S3532 | 1 | IC,MDC,SR,SLAMD,G0,PRQ,2.0/FS,8G,35W,PGA | CPU | CRITICAL | 2P0GHZ_G0_CPU | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | www.laptop-schematics.com | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | www.laptop-schematics.com | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | www.laptop-schematics.com | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | www.laptop-schematics.com | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | www.laptop-schematics.com | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | www.laptop-schematics.com | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | www.laptop-schematics.com | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | www.laptop-schematics.com | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | www.laptop-schematics.com | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | www.laptop-schematics.com | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | <table><tr><th>PART#</th><th>QTY</th><th>DESCRIPTION</th><th>REFERENCE DESIGNATOR(S)</th><th>CRITICAL</th><th>BOM OPTION</th></tr><tr><td>155S0306</td><td>4</td><td>FLTR,CHN MDE,90 OHM,200MA,LF2012</td><td>L9400,L9401,L9402,L9403</td><td>CRITICAL</td><td>TMDS_CHOKE</td></tr><tr><td>116S0004</td><td>8</td><td>RES,0-OHM,1/16W,5%,0402</td><td>R9400,R9402,R9403,R9404,R9405,R9408,R9409,R9415</td><td></td><td>TMDS_RES_0_OHM</td></tr></table> | | | | | | | | | | | | | | | PART# | QTY | DESCRIPTION | REFERENCE DESIGNATOR(S) | CRITICAL | BOM OPTION | 155S0306 | 4 | FLTR,CHN MDE,90 OHM,200MA,LF2012 | L9400,L9401,L9402,L9403 | CRITICAL | TMDS_CHOKE | 116S0004 | 8 | RES,0-OHM,1/16W,5%,0402 | R9400,R9402,R9403,R9404,R9405,R9408,R9409,R9415 | | TMDS_RES_0_OHM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PART# | QTY | DESCRIPTION | REFERENCE DESIGNATOR(S) | CRITICAL | BOM OPTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 155S0306 | 4 | FLTR,CHN MDE,90 OHM,200MA,LF2012 | L9400,L9401,L9402,L9403 | CRITICAL | TMDS_CHOKE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 116S0004 | 8 | RES,0-OHM,1/16W,5%,0402 | R9400,R9402,R9403,R9404,R9405,R9408,R9409,R9415 | | TMDS_RES_0_OHM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <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>124-0369</td><td>124-0363</td><td></td><td>C7109,C7154,C7254,C7340,C7440,C7480,C7530,C7532</td><td>CAP</td></tr><tr><td>124-0370</td><td>124-0339</td><td></td><td>C7490,C7491</td><td>CAP</td></tr><tr><td>124-0361</td><td>124-0339</td><td></td><td>C7490,C7491</td><td>CAP</td></tr><tr><td>371S0464</td><td>371S0154</td><td></td><td>D7624,D7664</td><td>DIODES</td></tr><tr><td>152S0786</td><td>152S0465</td><td></td><td>L7710</td><td>IND,10UH</td></tr></table> | | | | | | | | | | | | | | | PART NUMBER | ALTERNATE FOR PART NUMBER | BOM OPTION | REF DES | COMMENTS: | 124-0369 | 124-0363 | | C7109,C7154,C7254,C7340,C7440,C7480,C7530,C7532 | CAP | 124-0370 | 124-0339 | | C7490,C7491 | CAP | 124-0361 | 124-0339 | | C7490,C7491 | CAP | 371S0464 | 371S0154 | | D7624,D7664 | DIODES | 152S0786 | 152S0465 | | L7710 | IND,10UH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PART NUMBER | ALTERNATE FOR PART NUMBER | BOM OPTION | REF DES | COMMENTS: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 124-0369 | 124-0363 | | C7109,C7154,C7254,C7340,C7440,C7480,C7530,C7532 | CAP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 124-0370 | 124-0339 | | C7490,C7491 | CAP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 124-0361 | 124-0339 | | C7490,C7491 | CAP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 371S0464 | 371S0154 | | D7624,D7664 | DIODES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 152S0786 | 152S0465 | | L7710 | IND,10UH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MXM_PWR_SENSE BOMOPTION CHANGE FOR PRODUCTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table><tr><th>PART#</th><th>QTY</th><th>DESCRIPTION</th><th>REFERENCE DESIGNATOR(S)</th><th>CRITICAL</th><th>BOM OPTION</th></tr><tr><td>107S0070</td><td>1</td><td>RES,0-OHM,2512</td><td>R5350</td><td></td><td>PRODUCTION</td></tr><tr><td>116S0090</td><td>2</td><td>RES,10K-OHM,5%,0402</td><td>C5358,C5359</td><td></td><td>PRODUCTION</td></tr></table> | | | | | | | | | | | | | | | PART# | QTY | DESCRIPTION | REFERENCE DESIGNATOR(S) | CRITICAL | BOM OPTION | 107S0070 | 1 | RES,0-OHM,2512 | R5350 | | PRODUCTION | 116S0090 | 2 | RES,10K-OHM,5%,0402 | C5358,C5359 | | PRODUCTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PART# | QTY | DESCRIPTION | REFERENCE DESIGNATOR(S) | CRITICAL | BOM OPTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 107S0070 | 1 | RES,0-OHM,2512 | R5350 | | PRODUCTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 116S0090 | 2 | RES,10K-OHM,5%,0402 | C5358,C5359 | | PRODUCTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BOM Configuration | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SYNC_MASTER=JAMES SYNC_DATE=10/16/06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOTICE OF PROPRIETARY PROPERTY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I TO MAINTAIN THE DOCUMENT IN CONFIDENCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| II NOT TO REPRODUCE OR COPY IT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table><tr><td rowspan="3"> APPLE INC.</td><td>SIZE</td><td colspan="2">DRAWING NUMBER</td><td>REV.</td></tr><tr><td>D</td><td colspan="2">051-7229</td><td>H</td></tr></table> | | | | | | | | | | | | | | |  APPLE INC. | SIZE | DRAWING NUMBER | | REV. | D | 051-7229 | | H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  APPLE INC. | SIZE | DRAWING NUMBER | | REV. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | D | 051-7229 | | H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table><tr><td>SCALE</td><td>SHT</td><td>OF</td></tr><tr><td>NONE</td><td>4</td><td>118</td></tr></table> | | | | | | | | | | | | | | | SCALE | SHT | OF | NONE | 4 | 118 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SCALE | SHT | OF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | 4 | 118 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | 7 | | 6 | | 5 | | 4 | | 3 | | 2 | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION |
|-------------|-----|---|---------------|----------|-------------|
| 113S0082 | 1 | RES, MF, 1/10W, 9100HM, 5, 0603, SMD, LF | R605 | | 20_INCH_LCD |
| 113S0095 | 1 | RES, MF, 1/10W, 3, 30KOHM, 5, 0603, SMD, LF | R605 | | 24_INCH_LCD |

Power Conn / Alias

SYNC_MASTER=MARK

SYNC_DATE=N/A

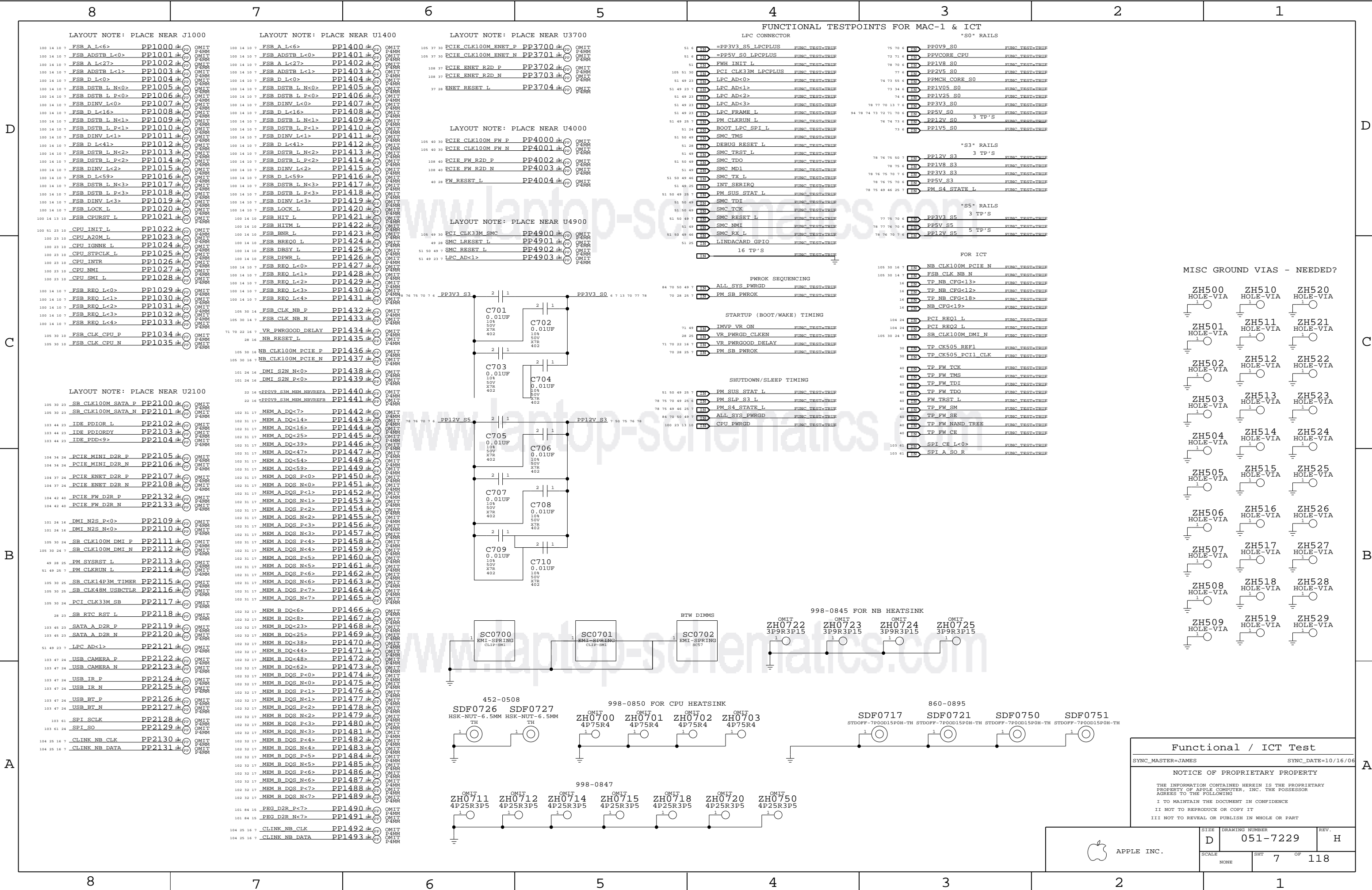
NOTICE OF PROPRIETARY PROPERTY

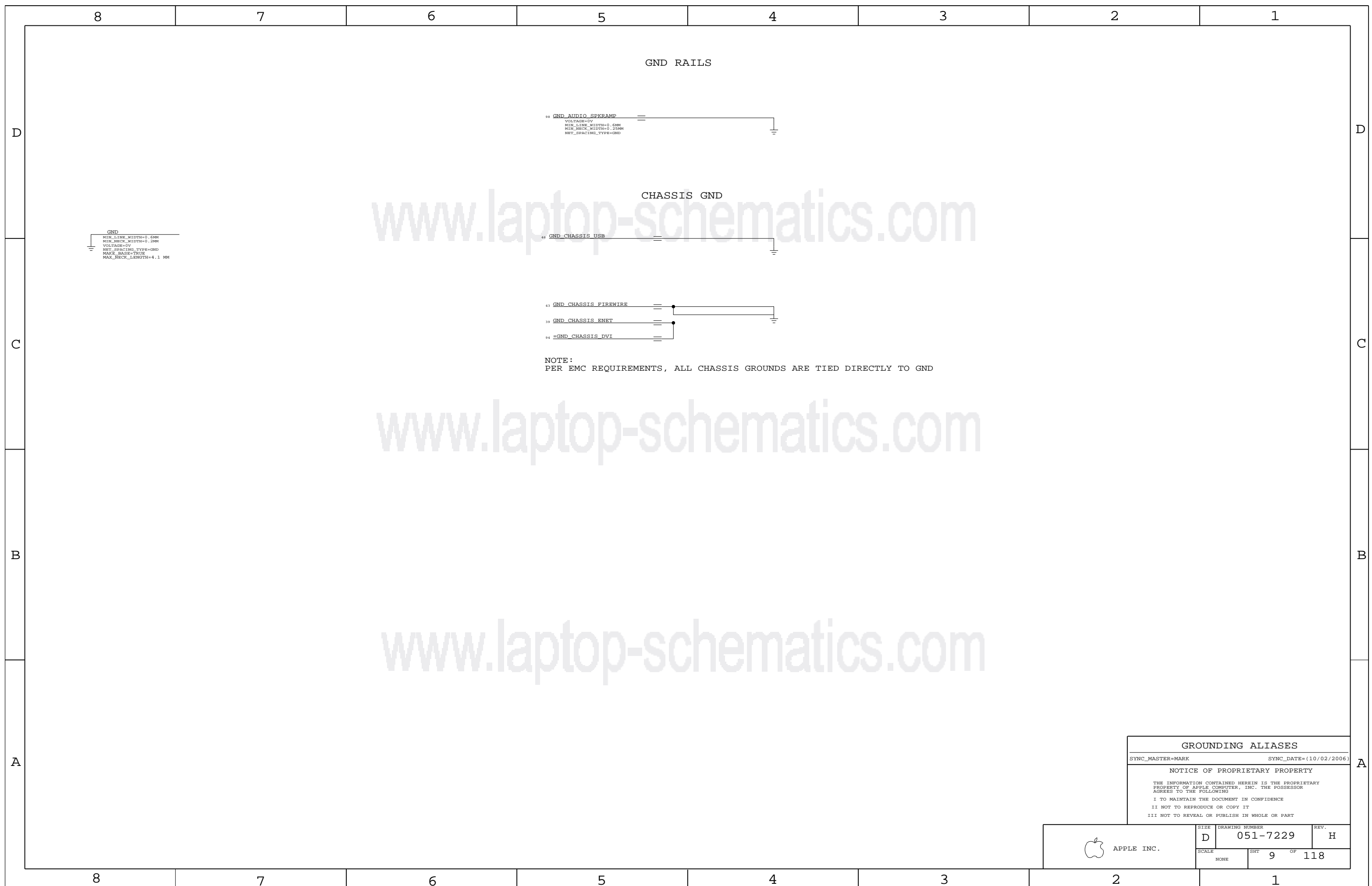
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING

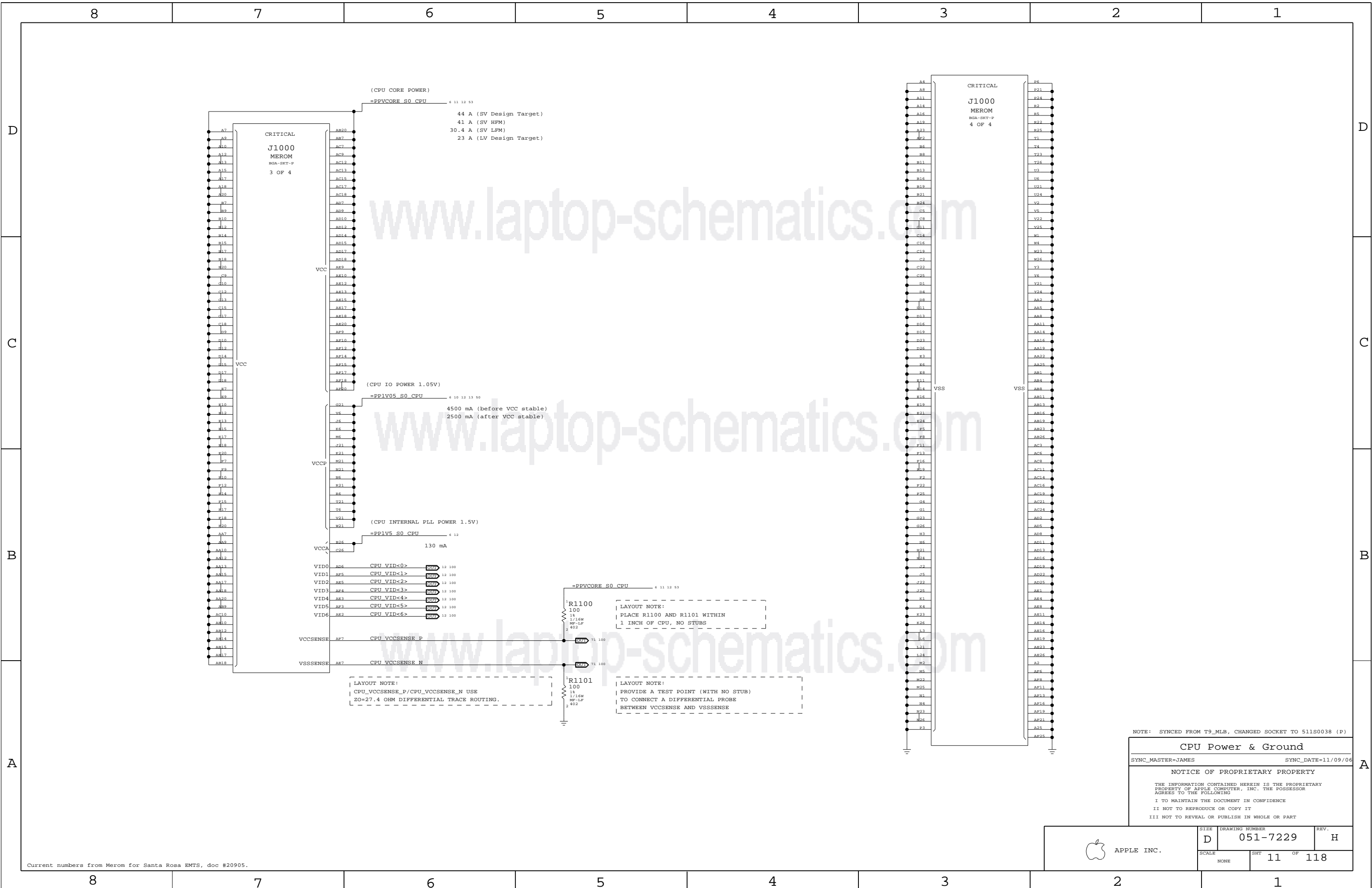
I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART







NOTE: SYNCED FROM T9_MLB, CHANGED SOCKET TO 511S0038 (P)

CPU Power & Ground

SYNC_MASTER=JAMES SYNC_DATE=11/09/06

NOTICE OF PROPRIETARY PROPERTY

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING

I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART



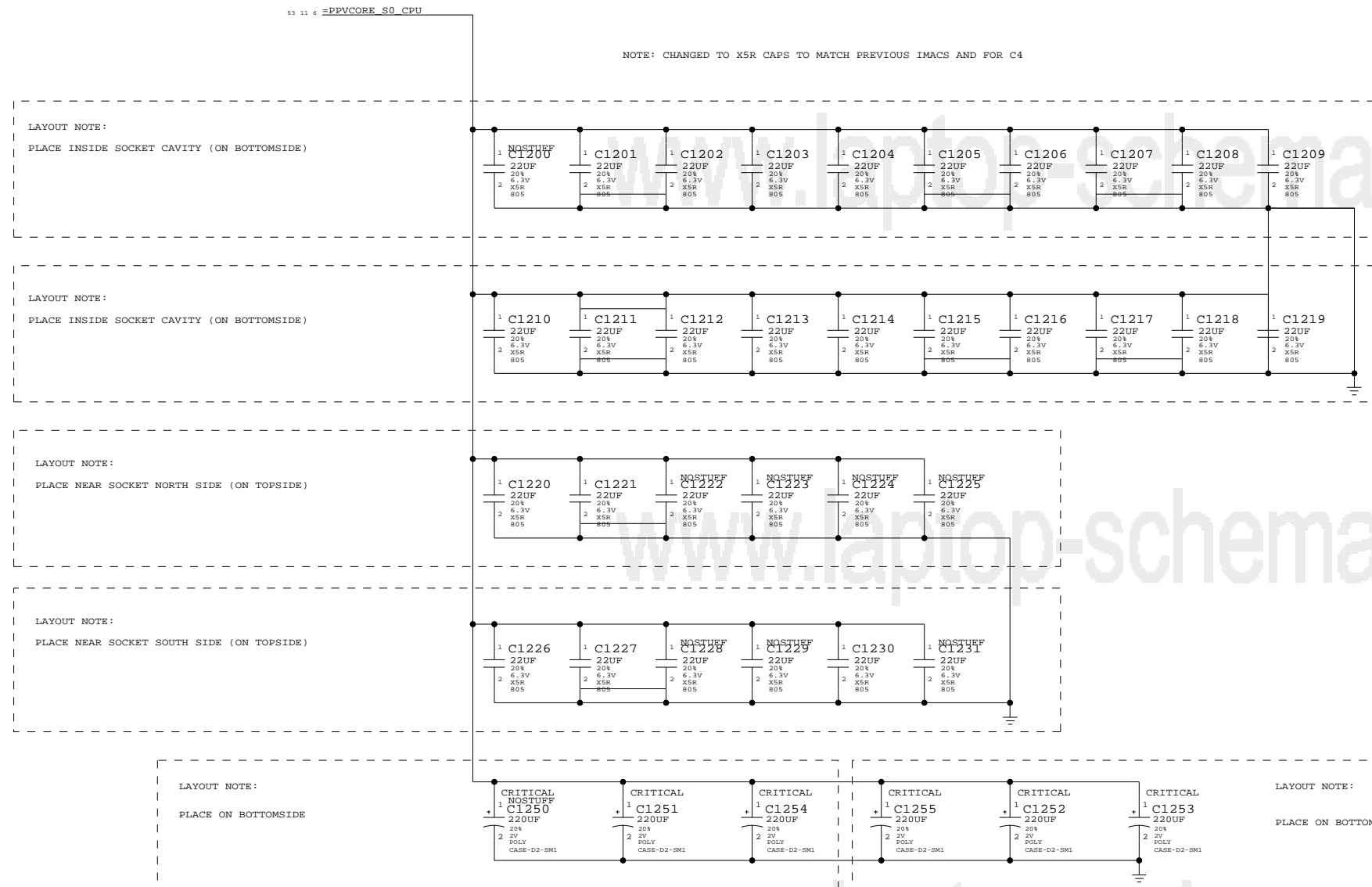
APPLE INC.

SIZE DRAWING NUMBER REV.

D 051-7229 H

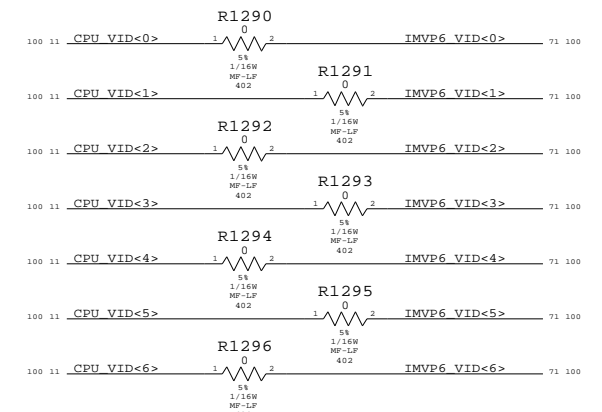
SCALE NONE SHT 11 OF 118

CPU VCORE HF AND BULK DECOUPLING
6X 220UF. 32X 22UF 0805

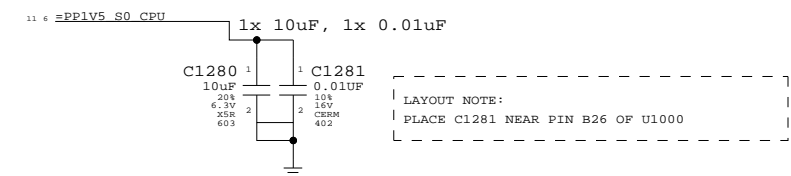


CPU VCORE VID CONNECTIONS

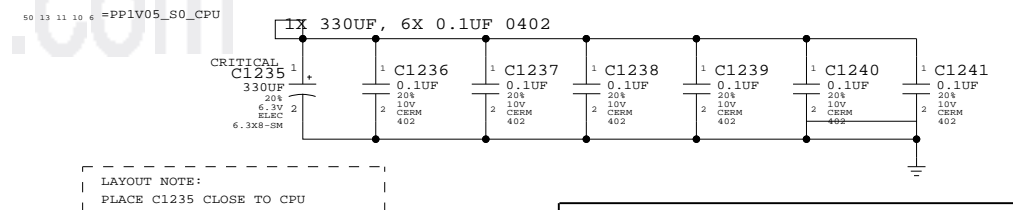
Resistors to allow for override of CPU VID
Will probably be removed before production



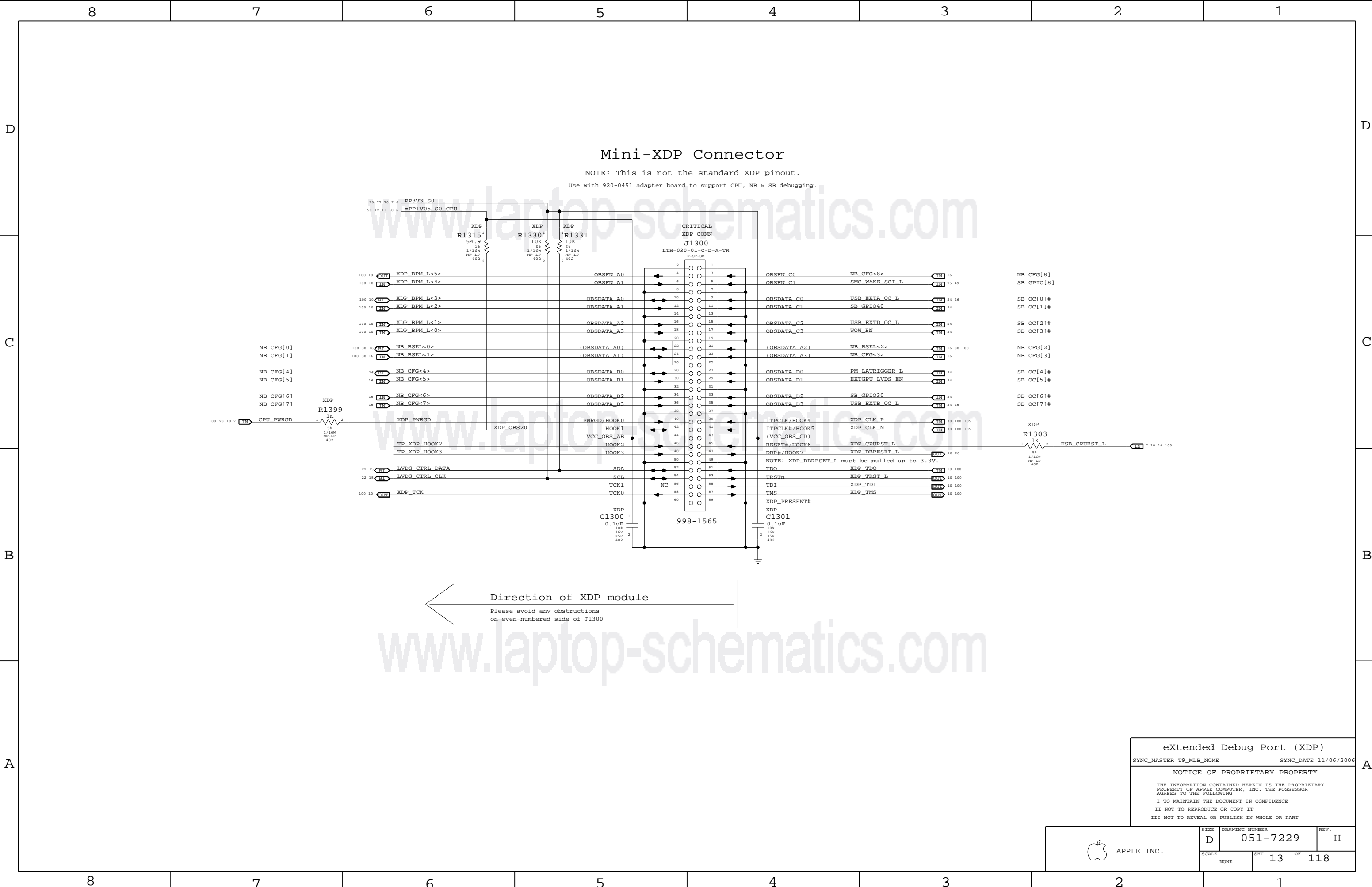
VCCA (CPU AVdd) DECOUPLING



VCCP (CPU I/O) DECOUPLING



| | |
|--|----------------------|
| CPU Decoupling & VID | |
| SYNC_MASTER=MARK | SYNC_DATE=10/10/2006 |
| NOTICE OF PROPRIETARY PROPERTY | |
| THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING | |
| I TO MAINTAIN THE DOCUMENT IN CONFIDENCE | |
| I II NOT TO REPRODUCE OR COPY IT | |
| I II NOT TO REVEAL OR PUBLISH IN WHOLE OR PART | |



eXtended Debug Port (XDP)

SYNC_MASTER=T9_MLB_NONE SYNC_DATE=11/06/2006

NOTICE OF PROPRIETARY PROPERTY

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING

I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

| | | | |
|------------|------|----------------|------|
| APPLE INC. | SIZE | DRAWING NUMBER | REV. |
| | D | 051-7229 | H |
| SCALE | | SHT | OF |
| NONE | | 13 | 118 |

D

C

B

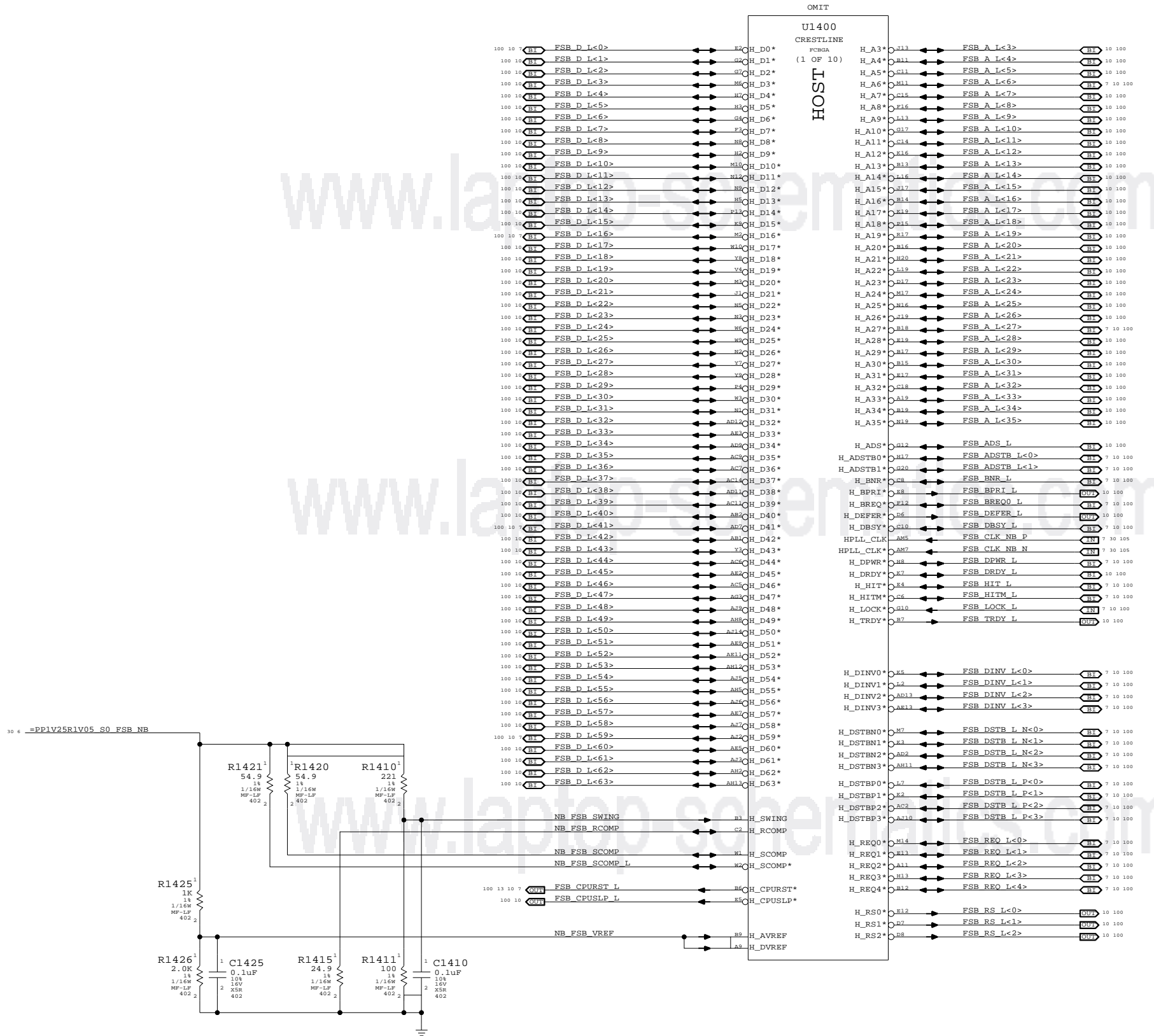
A

D

C

B

A



NB CPU Interface

SYNC_MASTER=T9_MLB SYNC_DATE=10/30/2006

NOTICE OF PROPRIETARY PROPERTY

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING

I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

D

C

B

A

D

C

B

A

LVDS Disable

Can leave all signals NC if LVDS is not implemented.
Tie VCC_TX_LVDS and VCCA_LVDS to GND.

If SDVO is used, VCCD_LVDS must remain powered with proper decoupling. Otherwise, tie VCCD_LVDS to GND also.

TV-Out Signal Usage:

Composite: DACA only
S-Video: DACB & DACC only
Component: DACA, DACB & DACC

Unused DAC outputs must remain powered, but can omit filtering components. Unused DAC outputs should connect to GND through 75-ohm resistors.

TV-Out Disable / CRT Enable

Tie TVx_DAC and TVx_RTIN to GND. Must power all TVDAC rails. VCCA_TVx_DAC and VCCA_DAC_BG can share filtering with VCCA_CRT_DAC.

CRT Disable / TV-Out Enable

Tie R/R#/G/G#/B/B#, HSYNC and VSYNC to GND. All CRT/TVDAC rails must be powered. All rails must be filtered except for VCCA_CRT.

CRT & TV-Out Disable

Tie TVx_DAC, TVx_RTIN, R/R#/G/G#/B/B#, HSYNC, VSYNC and CRT_TVO_IREF to GND.
Can tie the following rails to GND:
VCCA_CRT_DAC, VCCA_DAC_BG, VCCA_TVx_DAC, VCCD_CRT, VCCD_QDAC and VCC_SYNC.

NOTE: Must keep VDDC_TVDAC powered and filtered at all times!

Internal Graphics Disable

Follow instructions for LVDS and CRT & TV-Out Disable above.
Can also tie CRT_DDC_*, L_CTRL_*, L_DDC_*, SDVO_CTRL_* and TV_DCONSELx to GND.
Tie DPLL_REF_CLK and DPLL_REF_SSCLK to GND.
Tie DPLL_REF_CLK* and DPLL_REF_SSCLK* to VCC (VCore).
Tie VCCA_DPLLA and VCCA_DPLLB to VCC (VCore).
Tie VCC_AXG and VCC_AXG_NCTF to GND.
Leave GFX_VID<3..0> and GFX_VR_EN as NC.



NB PEG / Video Interfaces

SYNC_MASTER=TS_MLB SYNC_DATE=10/30/2006

NOTICE OF PROPRIETARY PROPERTY

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING
I TO MAINTAIN THE DOCUMENT IN CONFIDENCE
II NOT TO REPRODUCE OR COPY IT
III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART



APPLE INC.

SIZE

DRAWING NUMBER

REV.

D

051-7229

H

SCALE

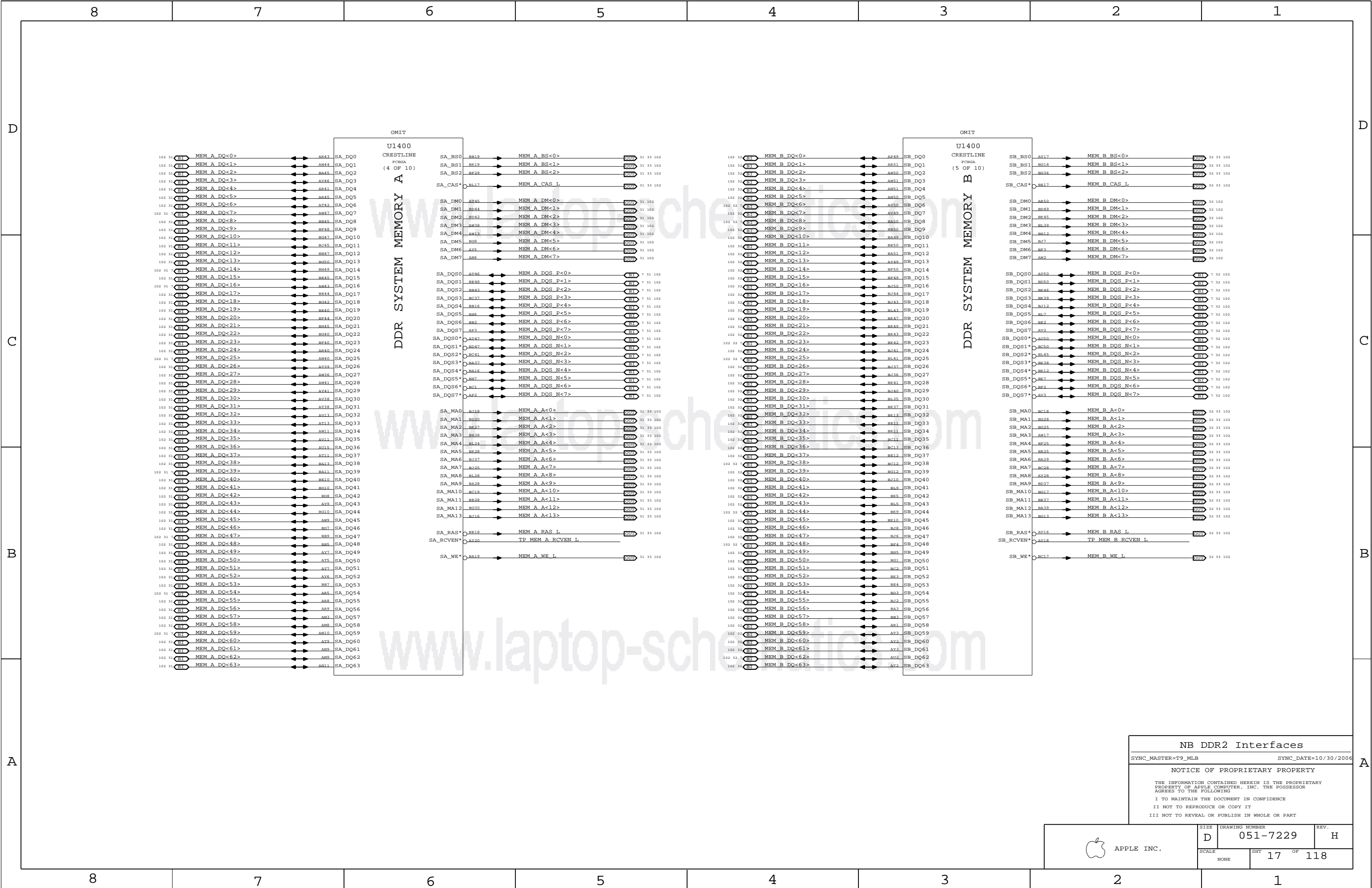
NONE

SHT

15

OF

118



NB DDR2 Interfaces

SYNC_MASTER=T9_MLB SYNC_DATE=10/30/2006

NOTICE OF PROPRIETARY PROPERTY

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING

I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

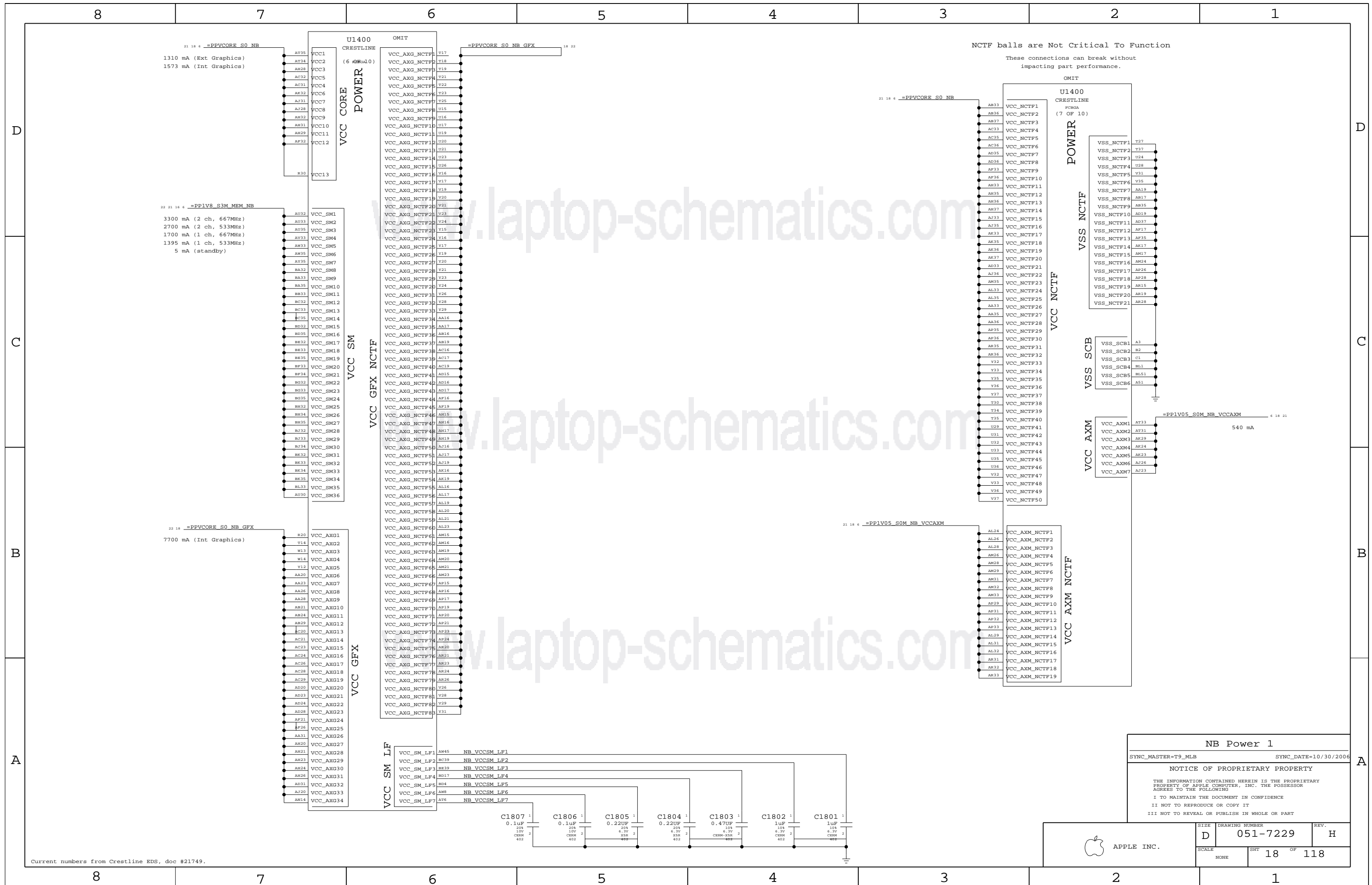
II NOT TO REPRODUCE OR COPY IT

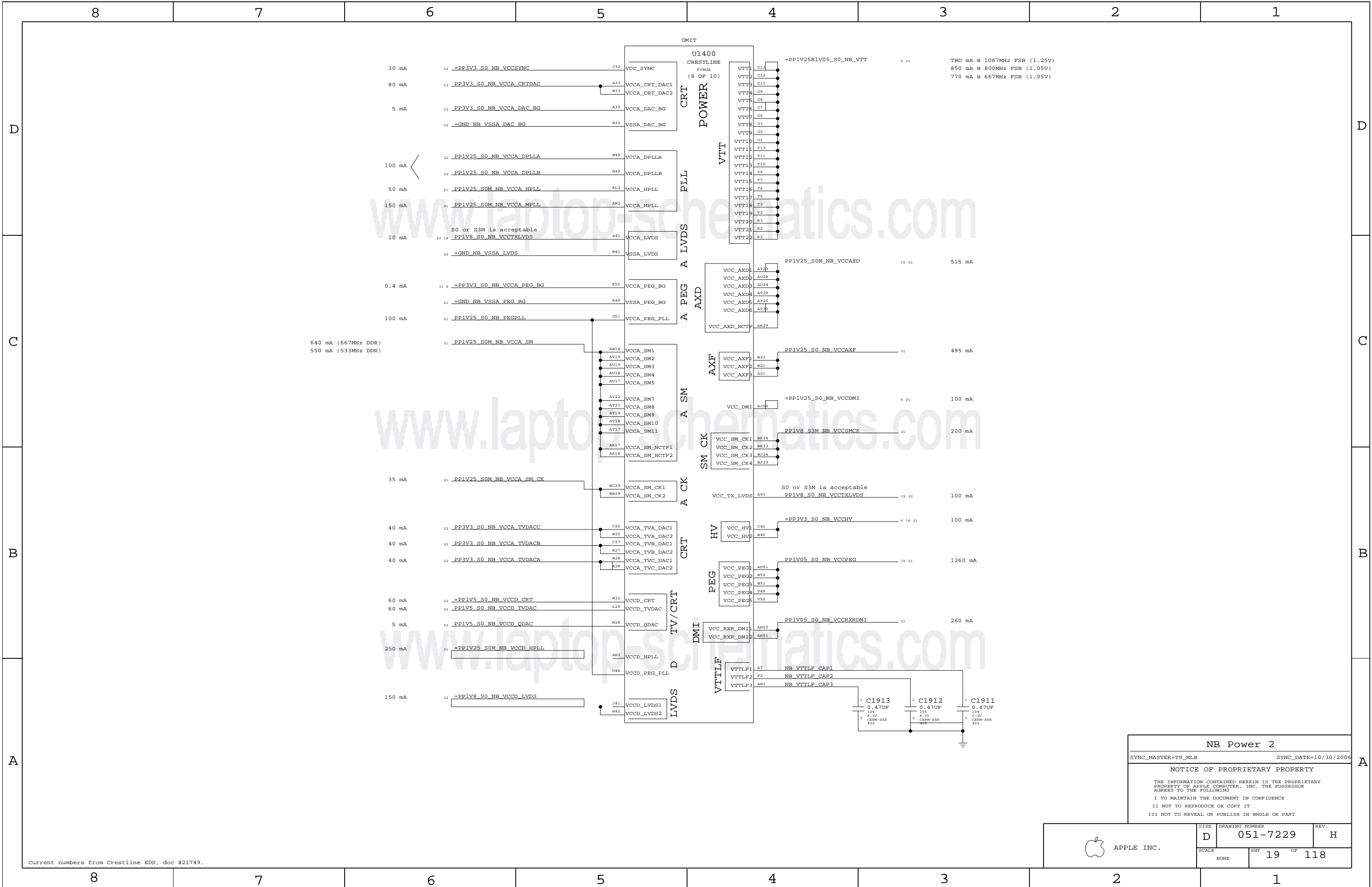
III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART



APPLE INC.

| SIZE | DRAWING NUMBER | REV. |
|-------|----------------|------|
| D | 051-7229 | H |
| SCALE | SHT 17 OF 118 | |
| NONE | | |





NB Power 2

SYNC_MASTER=T9_MLB SYNC_DATE=10/30/2006

NOTICE OF PROPRIETARY PROPERTY

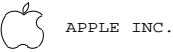
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING

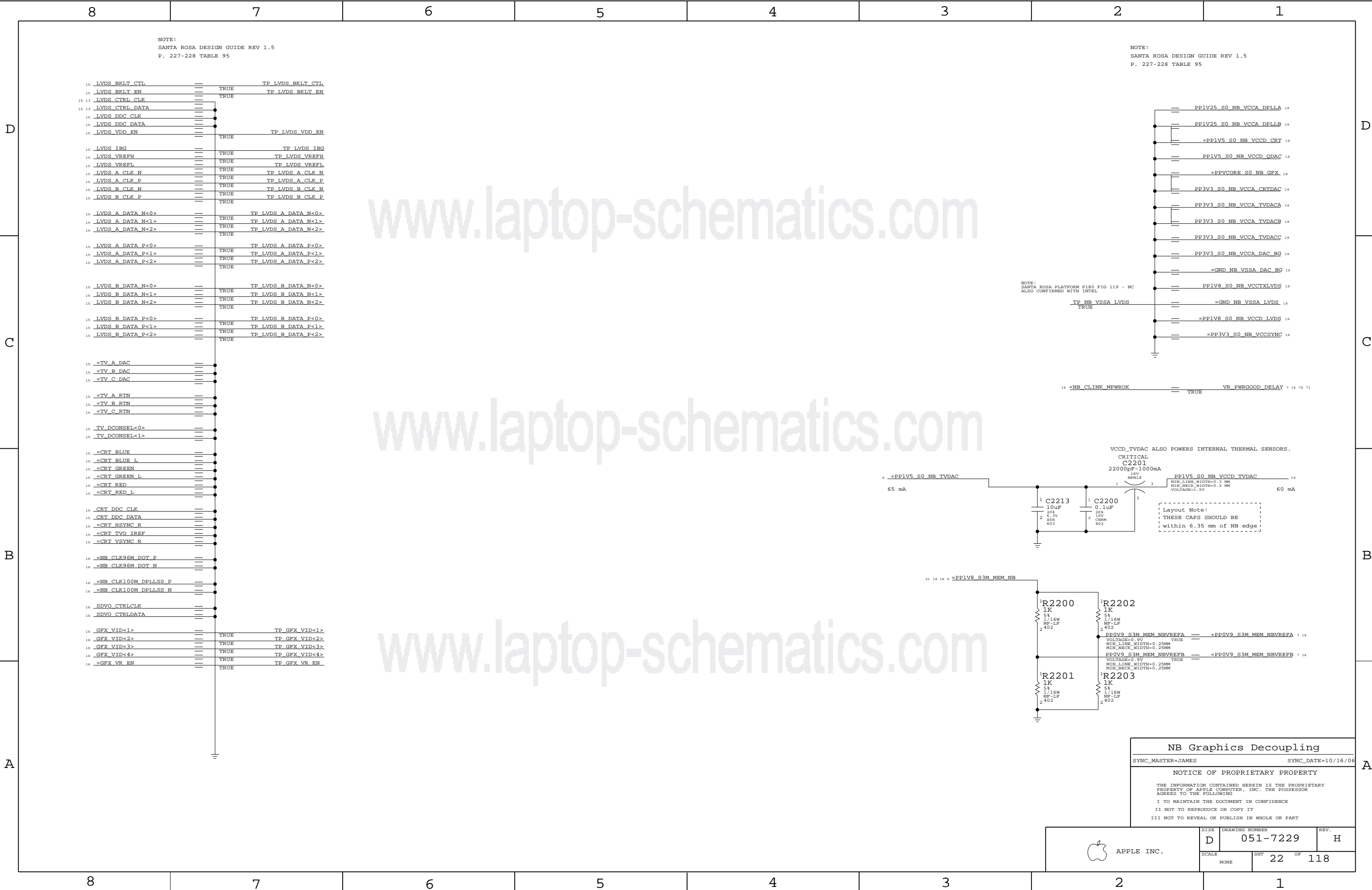
I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

| | | | |
|-------|----------------|-----|------|
| D | DRAWING NUMBER | | REV. |
| | 051-7229 | | H |
| SCALE | | SHT | OF |
| NONE | | 19 | 118 |





NOTE:
SANTA ROSA DESIGN GUIDE REV 1.5
P. 227-228 TABLE 95

NOTE:
SANTA ROSA DESIGN GUIDE REV 1.5
P. 227-228 TABLE 95

NOTE:
SANTA ROSA PLATFORM P180 FIG 119 - NC
ALSO CONFIRMED WITH INTEL

VCCD_TVDAC ALSO POWERS INTERNAL THERMAL SENSORS.

Layout Note:
THESE CAPS SHOULD BE
within 6.35 mm of NB edge

NB Graphics Decoupling

SYNC_MASTER=JAMES SYNC_DATE=10/16/06

NOTICE OF PROPRIETARY PROPERTY

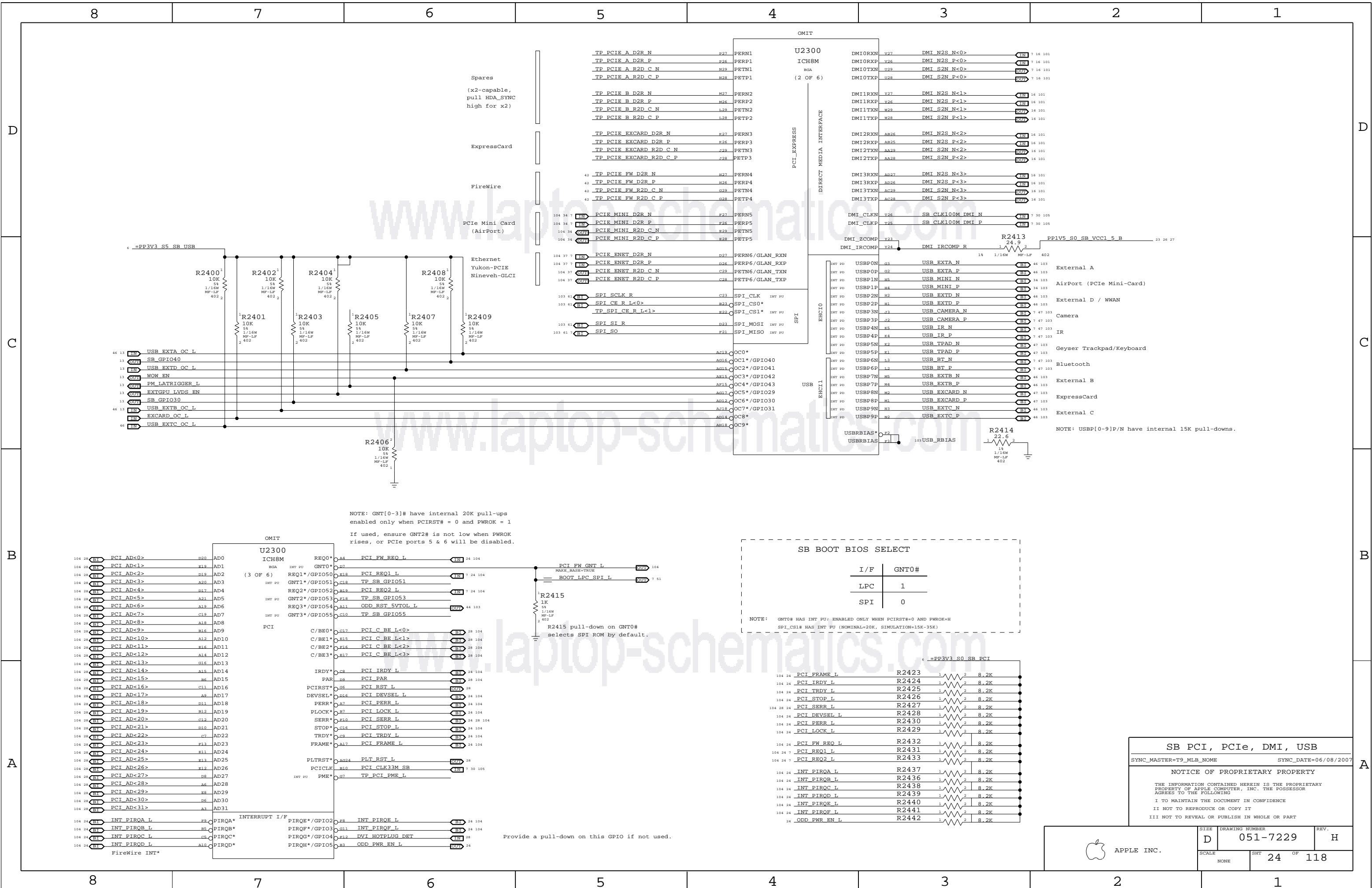
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING

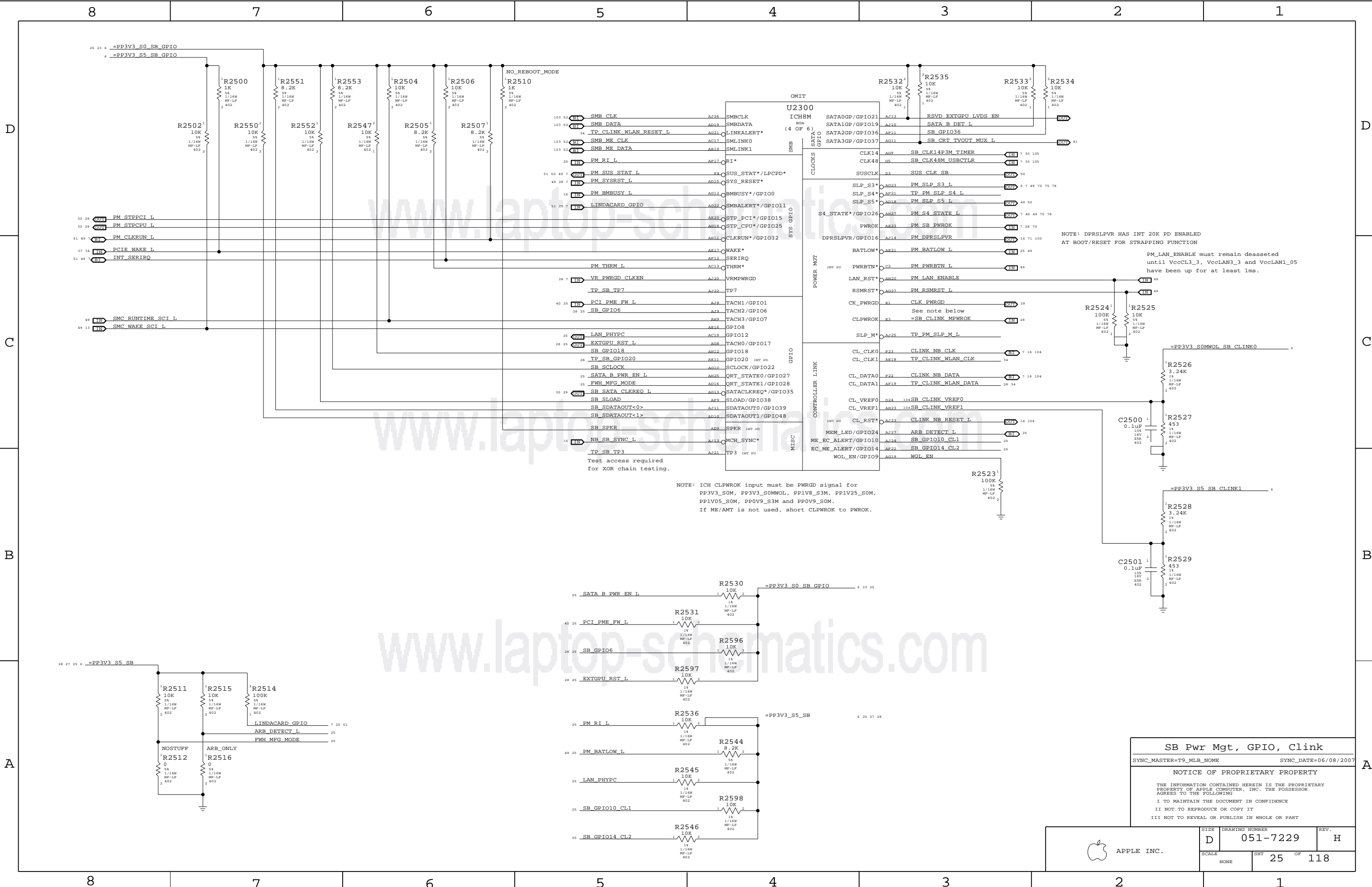
I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

| | | | |
|------------|------|----------------|------|
| APPLE INC. | SIZE | DRAWING NUMBER | REV. |
| | D | 051-7229 | H |
| SCALE | | SHT | OF |
| NONE | | 22 | 118 |





SB Pwr Mgt, GPIO, Clink

SYNC_MASTER=TS_MLB_NOME SYNC_DATE=06/08/2007

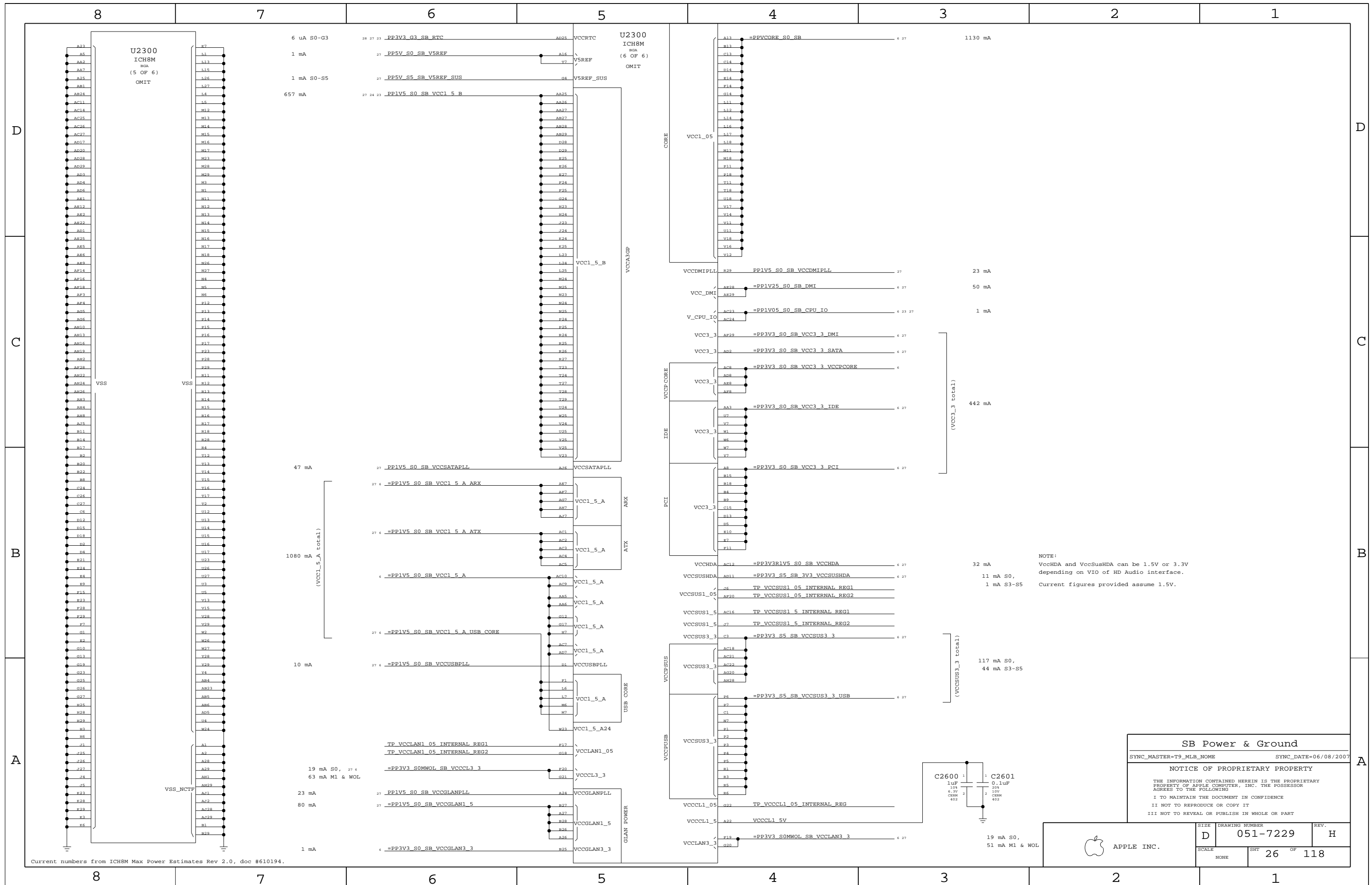
NOTICE OF PROPRIETARY PROPERTY

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING

I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|---|---|---|---|---|---|---|---|



C



A



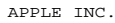
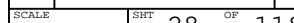
4

2

D



B



| | |
|-------|---------------|
| SCALE | SHT 28 OF 114 |
|-------|---------------|

D

C

B

A

D

C

B

A

8

7

6

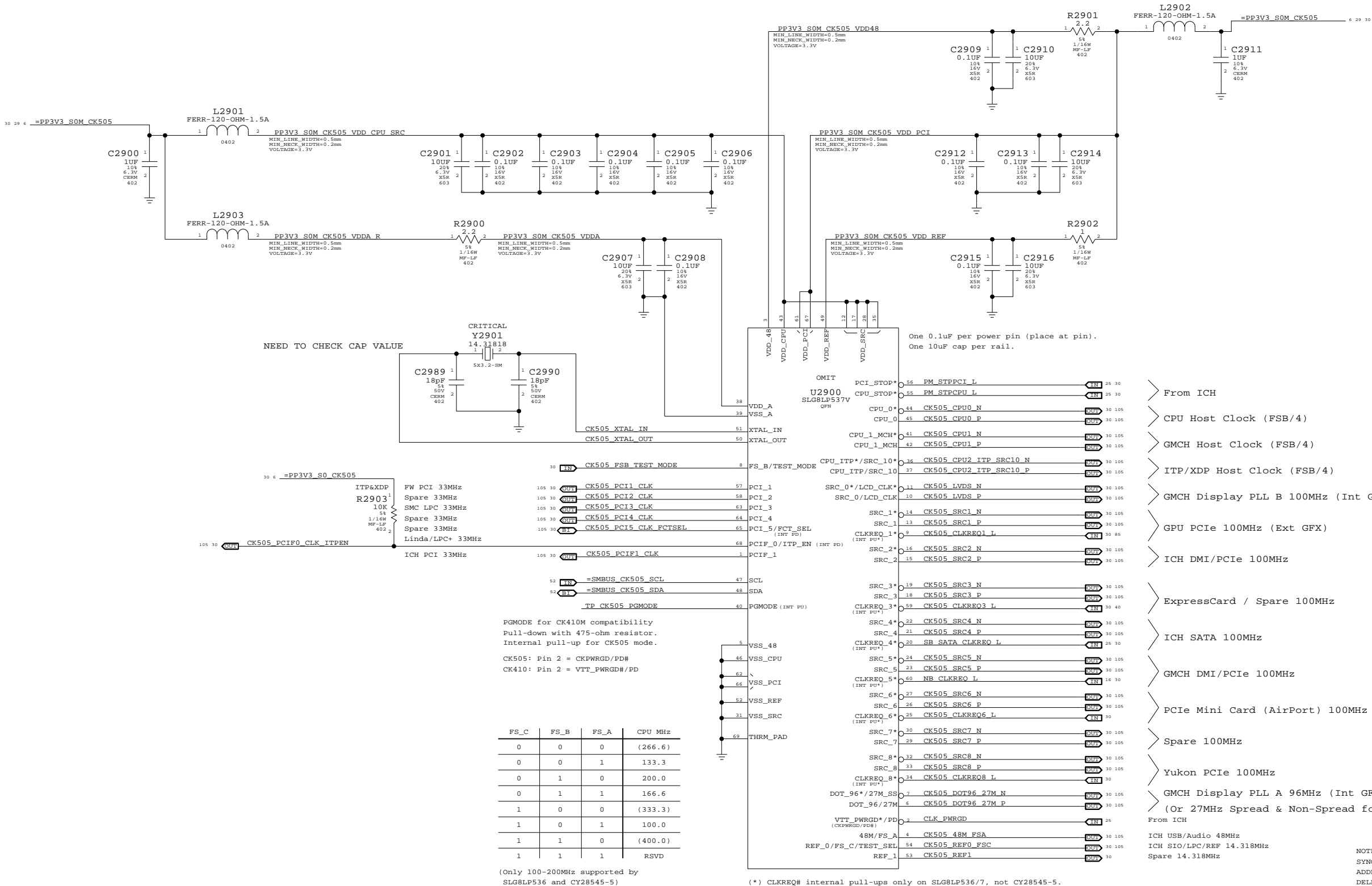
5

4

3

2

1



| FCT_SEL | PIN 6 | PIN 7 | PIN 10 | PIN 11 |
|---------|---------|----------|----------|----------|
| 0 | DOT_96+ | DOT_96- | LCD_CLK+ | LCD_CLK- |
| 1 | 27M | 27M w/SS | SRC_0+ | SRC_0- |

(For Internal Graphics)
(For External Graphics)

Clock (CK505)

SYNC_MASTER=JAMES SYNC_DATE=11/27/2006

NOTICE OF PROPRIETARY PROPERTY

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING
I TO MAINTAIN THE DOCUMENT IN CONFIDENCE
II NOT TO REPRODUCE OR COPY IT
III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART



APPLE INC.

SIZE

DRAWING NUMBER

051-7229

REV.

H

SCALE

NONE

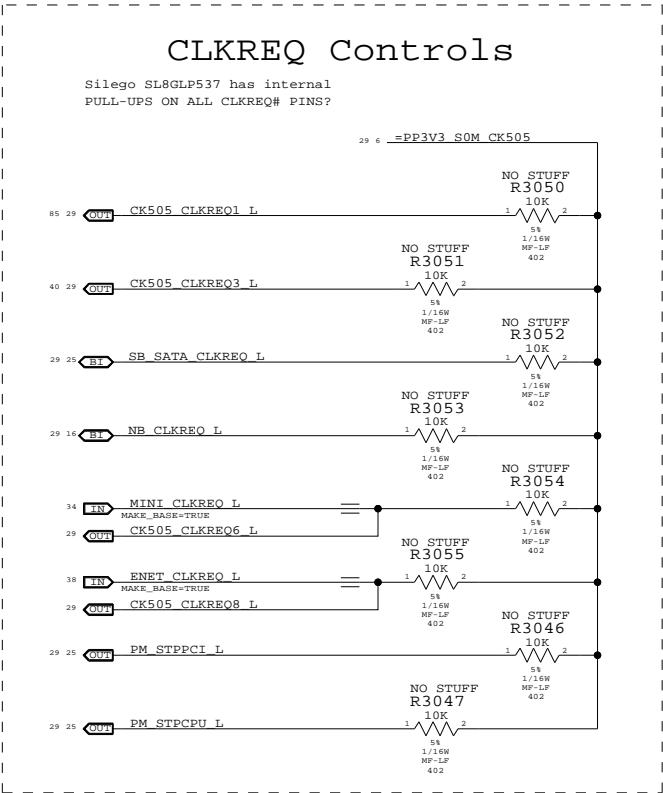
SHT

29

OF

118

(Note: HOST/SRC/GFX clock termination kept on T9 for Cypress CY28545-5 compatibility)



```
29  IN CK505_REF1 == TP_CK505_REF1 7
    MAKE_BASE=TRUE
(Spare 14.318MHZ)
```

NO STUFF R3082, R3086 & R3090
for manual CPU clk frequency.

SYNC_MASTER=JAMES SYNC_DATE=10/18/2006

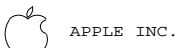
NOTICE OF PROPRIETARY PROPERTY

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING

I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART



| | | |
|---------------|----------------------------|-----------|
| SIZE D | DRAWING NUMBER 051-7229 | REV. |
| SCALE NONE | SHT 30 | OF 118 |

Power aliases required by this page:

- =PP1V8_S3_MEM
- =PP0V9_S3_MEM_VREF
- =PPSPD_S0_MEM (2.5V - 3.3V)

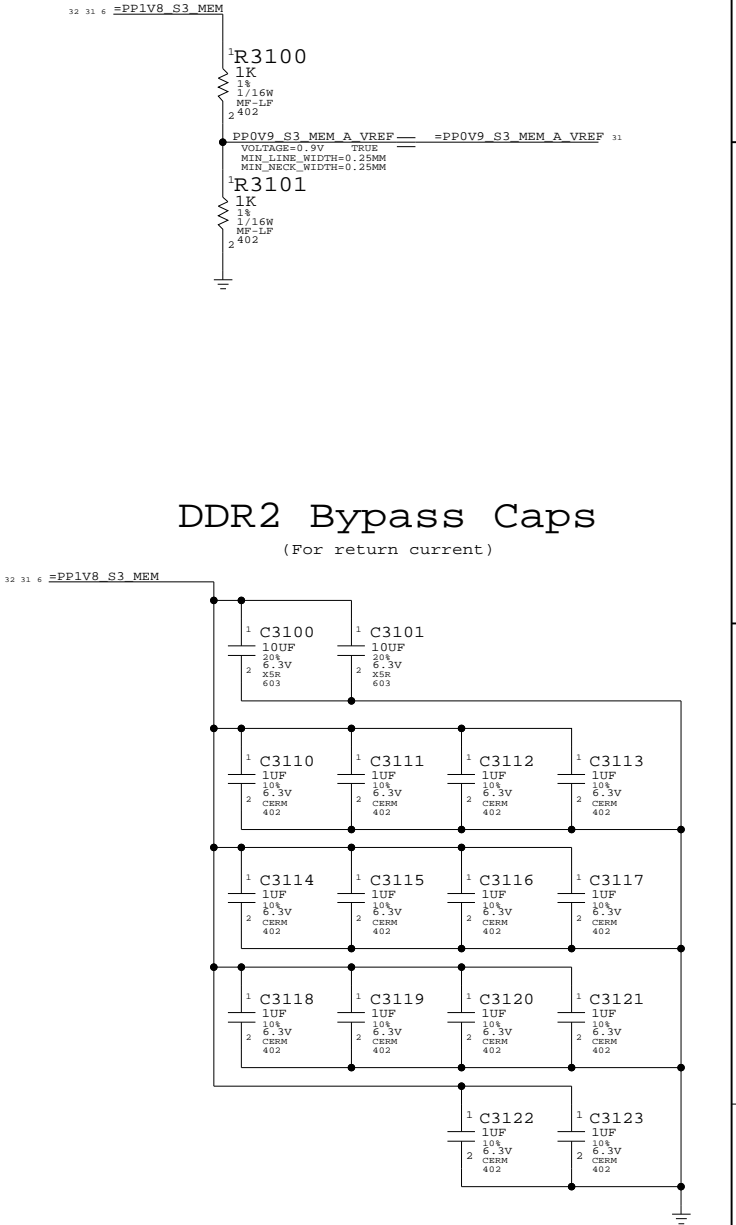
Signal aliases required by this page:

- =I2C_MEM_SCL
- =I2C_MEM_SDA

BOM options provided by this page:

(NONE)

NOTE: This page does not supply VREF.
The reference voltage must be provided
by another page.



DDR2 SO-DIMM Connector A


SYNC_MASTER=JAMESSYNC_DATE=10/17/06

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING

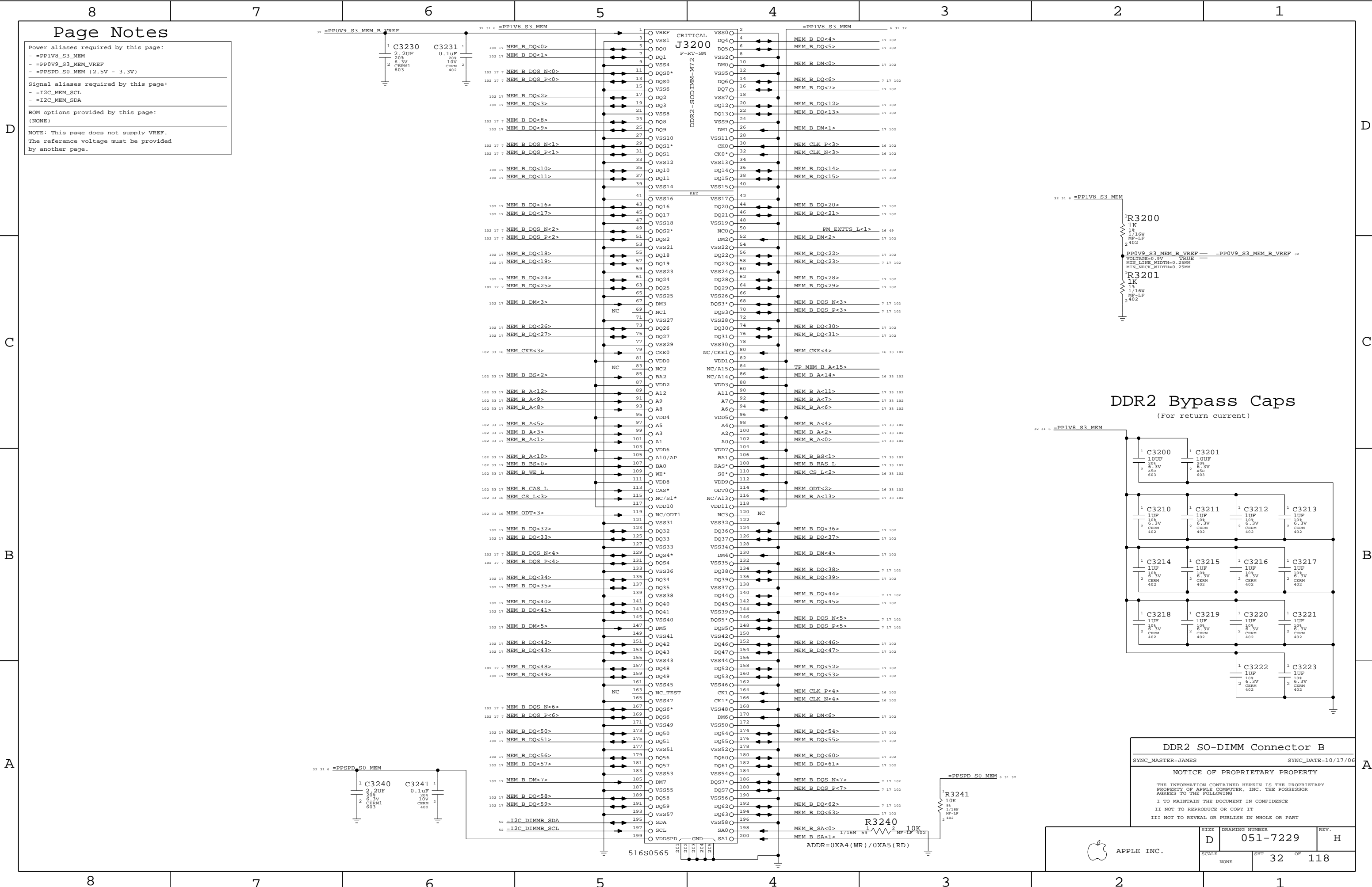
I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

| | | | | |
|--|-------|----------------|-----|------|
|  APPLE INC. | SIZE | DRAWING NUMBER | | REV. |
| | D | 051-7229 | | H |
| | SCALE | SHT | OF | |
| | NONE | 31 | 118 | |





Page Notes

Power aliases required by this page:

- =PP1V8_S3_MEM
- =PP0V9_S3_MEM_VREF
- =PPSPD_S0_MEM (2.5V - 3.3V)

Signal aliases required by this page:

- =I2C_MEM_SCL
- =I2C_MEM_SDA

BOM options provided by this page:

(NONE)

NOTE: This page does not supply VREF.
The reference voltage must be provided
by another page.

DDR2 Bypass Caps

(For return current)

DDR2 SO-DIMM Connector B

SYNC_MASTER=JAMES

SYNC_DATE=10/17/06

NOTICE OF PROPRIETARY PROPERTY

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING

I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

APPLE INC.

SIZE

D

DRAWING NUMBER

051-7229

REV.

H

SCALE

NONE

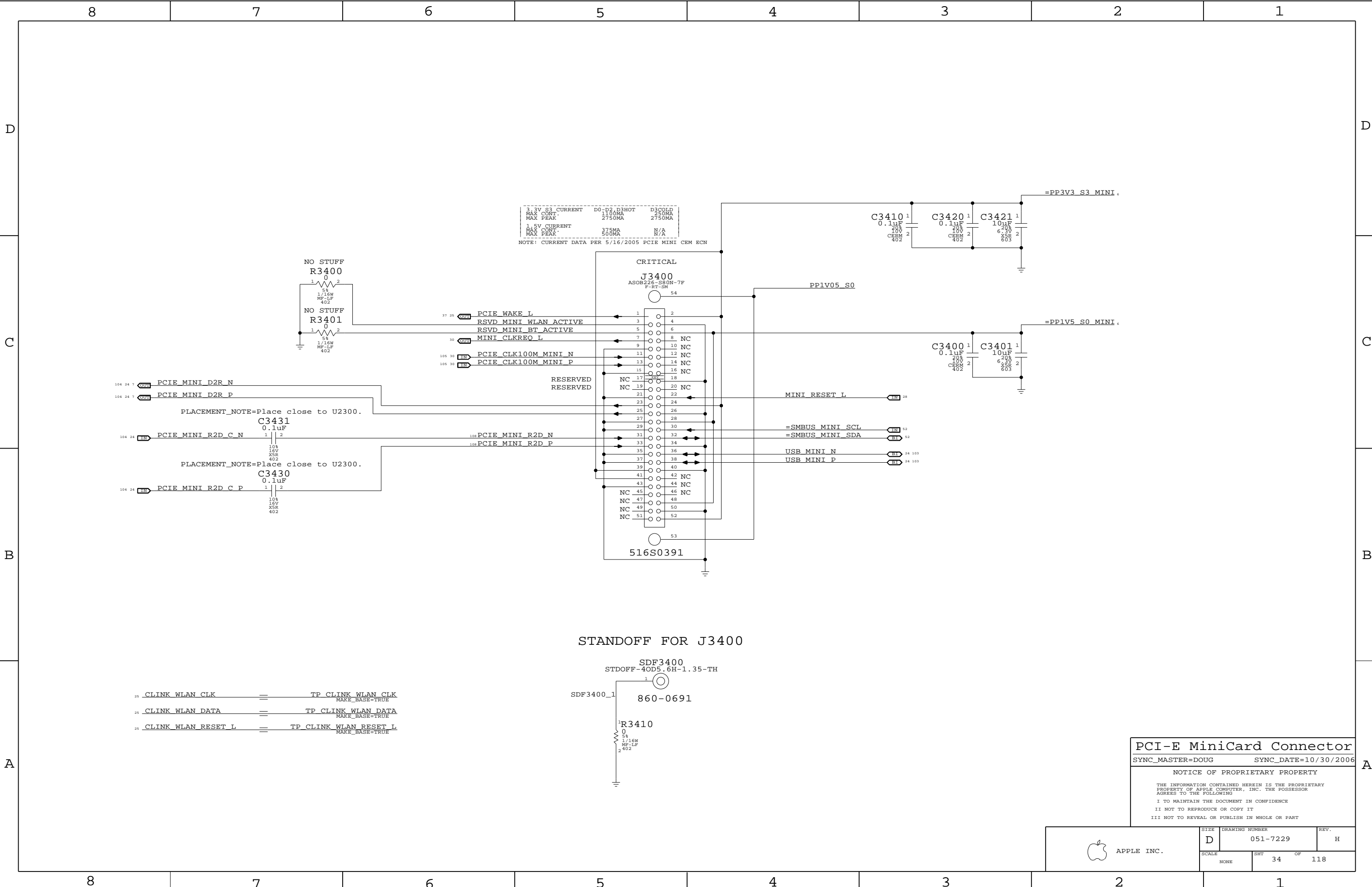
SHT

32

OF

118





PCI-E MiniCard Connector

SYNC_MASTER=DOUG SYNC_DATE=10/30/2006

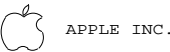
NOTICE OF PROPRIETARY PROPERTY

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING

I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART



APPLE INC.

SIZE DRAWING NUMBER REV.

D 051-7229 H

SCALE SHT OF

NONE 34 118

Page Notes

Power aliases required by this page:

- =PP3V3_ENET_PHY (EC / Ultra)
- =PP1V9R2V5_ENET_PHY (2.5V / 1.8V)
- =YUKON_EC_PP2V5_ENET (2.5V / GND)
- =PP1V2_ENET_PHY

Signal aliases required by this page:

- =ENET_CLKREQ_L (NC/TP for Yukon EC)
- =ENET_VMAIN_AVLBL (See note by pin)

BOM options provided by this page:

YUKON_EC - Selects Yukon EC RSET value.
YUKON_ULTRA - Selects Yukon Ultra RSET.

NOTE: See bottom of page for instructions for dual Yukon EC / Yukon Ultra schematic support.

Yukon EC

| | |
|------------|--------|
| No link: | 171 mA |
| 10 Mbps: | 179 mA |
| 100 Mbps: | 203 mA |
| 1000 Mbps: | 426 mA |

Yukon Ultra

| | |
|------------|--------|
| No link: | 130 mA |
| 10 Mbps: | 130 mA |
| 100 Mbps: | 150 mA |
| 1000 Mbps: | 290 mA |

Yukon EC

| | |
|------------|------|
| No link: | 4 mA |
| 10 Mbps: | 4 mA |
| 100 Mbps: | 4 mA |
| 1000 Mbps: | 4 mA |

Yukon Ultra

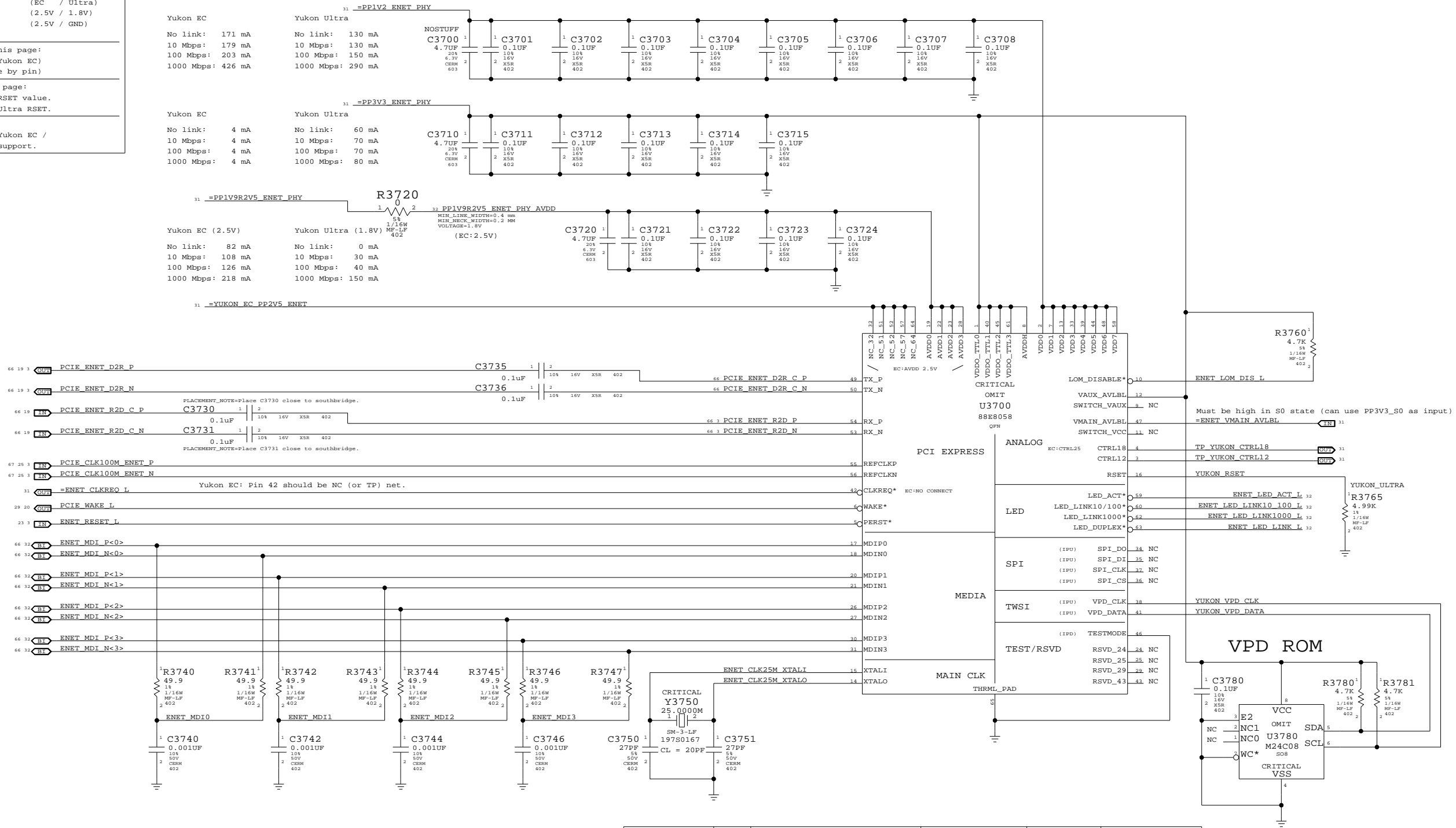
| | |
|------------|-------|
| No link: | 60 mA |
| 10 Mbps: | 70 mA |
| 100 Mbps: | 70 mA |
| 1000 Mbps: | 80 mA |

Yukon EC (2.5V)

| | |
|------------|--------|
| No link: | 82 mA |
| 10 Mbps: | 108 mA |
| 100 Mbps: | 126 mA |
| 1000 Mbps: | 218 mA |

Yukon Ultra (1.8V)

| | |
|------------|--------|
| No link: | 0 mA |
| 10 Mbps: | 30 mA |
| 100 Mbps: | 40 mA |
| 1000 Mbps: | 150 mA |



| PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION |
|-------------|-----|---------------------------------------|---------------|----------|-------------|
| 338S0386 | 1 | IC,88E8058,GIGABIT ENET XCVR,64P QFN | U3700 | CRITICAL | YUKON_ULTRA |
| 341S2060 | 1 | IC,FLASH,88E8058 ETHERNET VPD,IIC,S08 | U3780 | CRITICAL | YUKON_ULTRA |
| 338S0270 | 1 | IC,88E8058,GIGABIT ENET XCVR,64P QFN | U3700 | CRITICAL | YUKON_EC |
| 341S1797 | 1 | IC,EEPROM,SERIAL IIC,8KBIT,S08 | U3780 | CRITICAL | YUKON_EC |
| 114S0285 | 1 | RES,4.87K,1%,1/16W,0402,LF | R3760 | | YUKON_EC |

To support Yukon EC and Ultra on the same board:

- ALIAS =YUKON_EC_PP2V5_ENET TO PP1V9R2V5_ENET_PHY_AVDD, ADD 1X 0.1uF AND 1X 0.001uF CAPS
- USE 0-OHM RESISTORS OR VARIABLE SUPPLY TO PROVIDE 1.8V OR 2.5V TO =PP1V9R2V5_ENET_PHY and magnetics. Can also use BCP69T1 connected to CTRL18 pin 4 for internal VR.
- Connect =ENET_CLKREQ_L to clock generator via 0-ohm resistor (BOMOPTION: YUKON_ULTRA)
- Use YUKON_EC and YUKON_ULTRA BOMOPTIONS to select stuffed part

Ethernet (Yukon)

SYNC_MASTER=DOUG SYNC_DATE=11/08/2006

NOTICE OF PROPRIETARY PROPERTY

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING

I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART



APPLE INC.

SIZE

D

DRAWING NUMBER

051-7229

REV.

H

SCALE

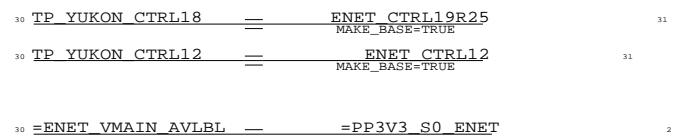
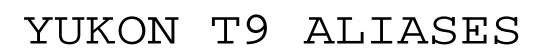
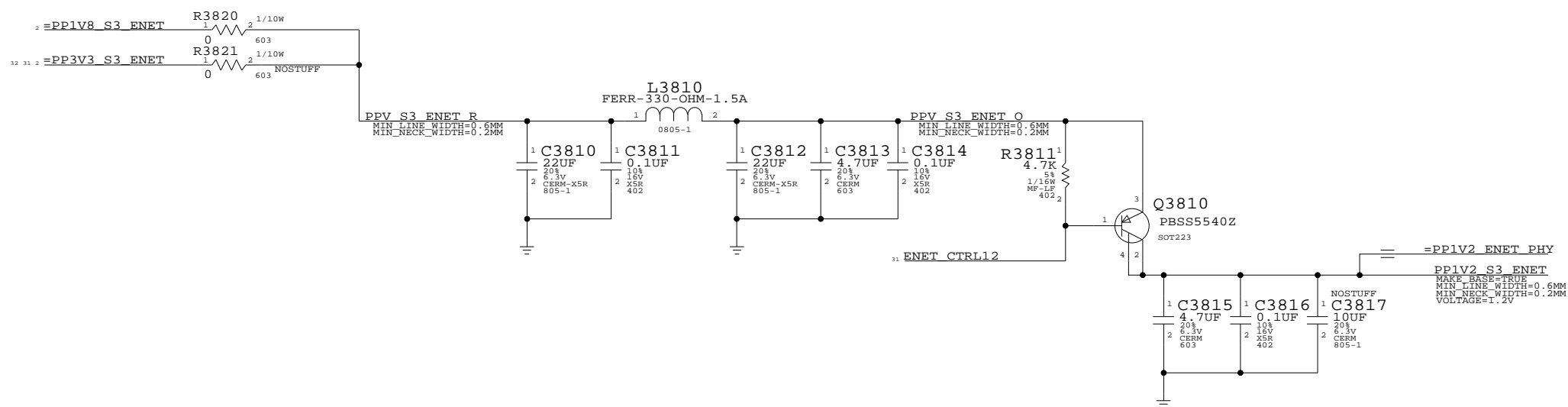
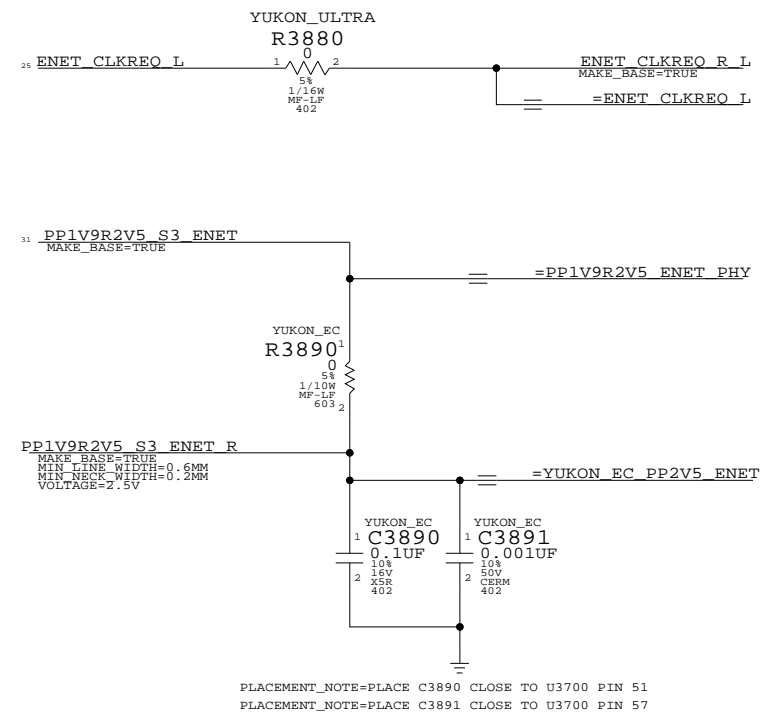
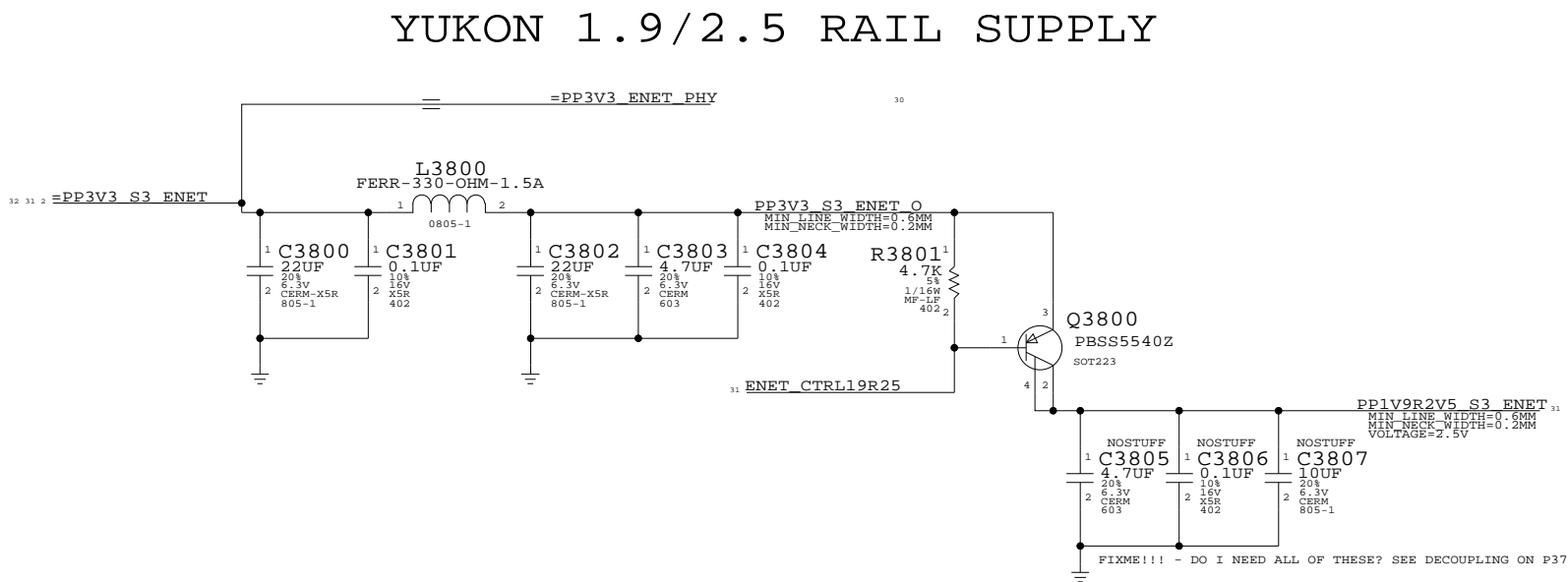
NONE

SHT


37

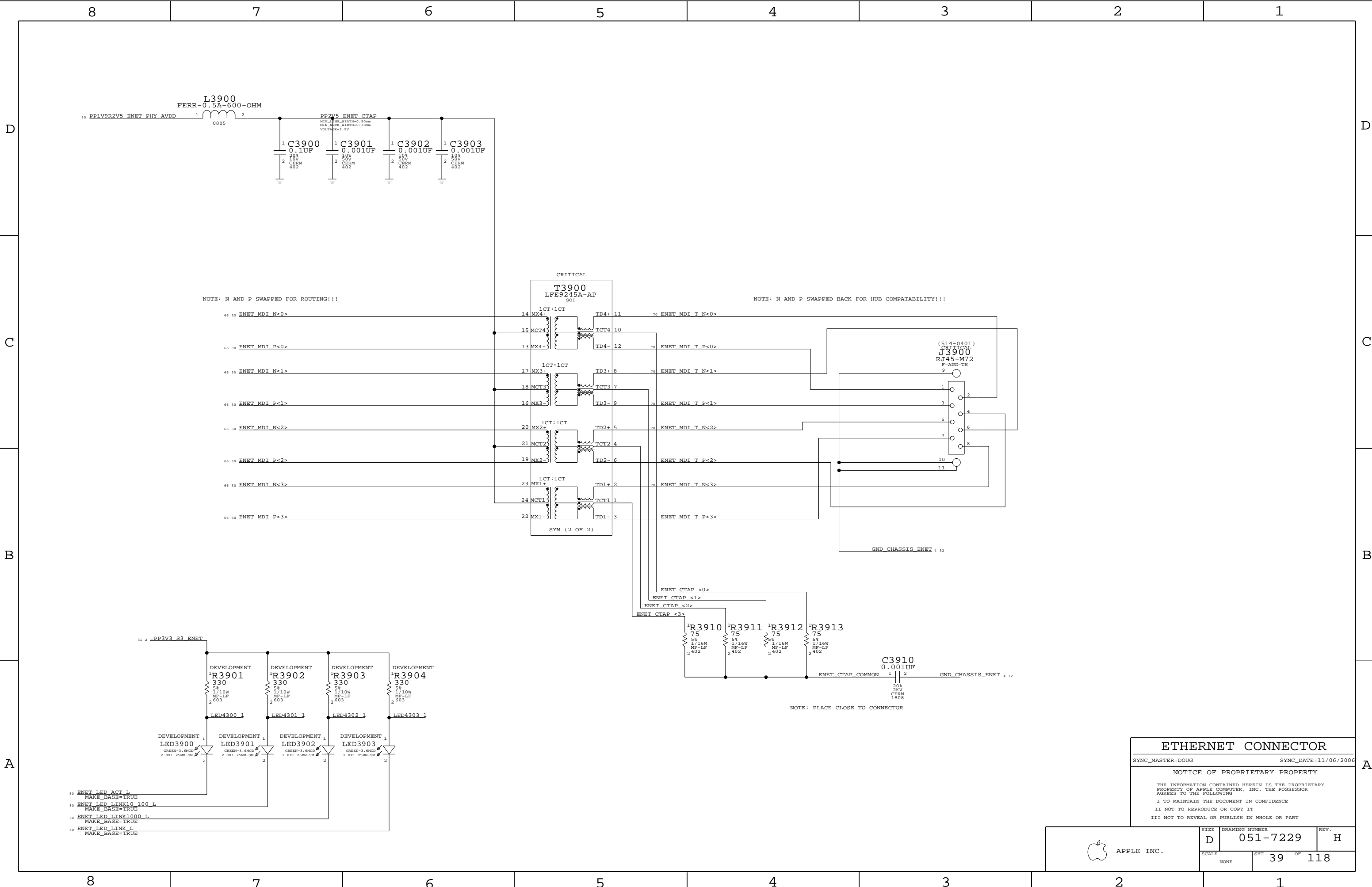
OF

118



| | |
|--|------------------------|
| YUKON/ULTRA SUPPORT | |
| SYNC_MASTER=DOUG | SYNC_DATE=(10/02/2006) |
| NOTICE OF PROPRIETARY PROPERTY | |
| THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING | |
| I TO MAINTAIN THE DOCUMENT IN CONFIDENCE | |
| II NOT TO REPRODUCE OR COPY IT | |
| III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART | |

| | | | |
|--|---------------|----------------------------|-----------|
|  APPLE INC. | SIZE D | DRAWING NUMBER 051-7229 | REV. H |
| | SCALE NONE | SHT 38 OF 118 | |



ETHERNET CONNECTOR

SYNC_MASTER=DOUG

SYNC_DATE=11/06/2006


NOTICE OF PROPRIETARY PROPERTY

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING

I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

APPLE INC.

SIZE

D

DRAWING NUMBER

051-7229

REV.

H

SCALE

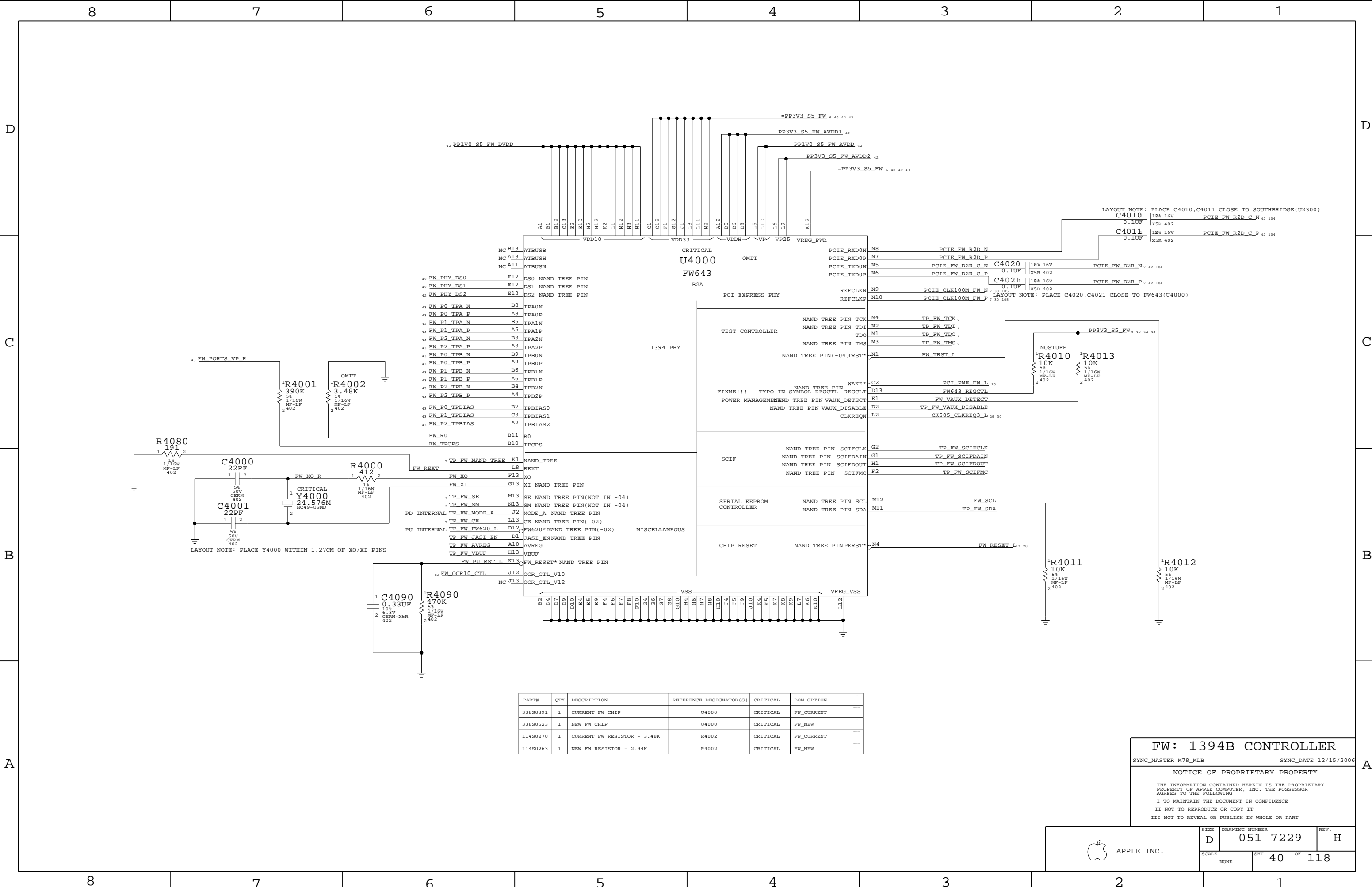
NONE

SHT

39

OF

118



| PART# | QTY | DESCRIPTION | REFERENCE DESIGNATOR(S) | CRITICAL | BOM OPTION |
|----------|-----|-----------------------------|-------------------------|----------|------------|
| 338S0391 | 1 | CURRENT FW CHIP | U4000 | CRITICAL | FW_CURRENT |
| 338S0523 | 1 | NEW FW CHIP | U4000 | CRITICAL | FW_NEW |
| 114S0270 | 1 | CURRENT FW RESISTOR - 3.48K | R4002 | CRITICAL | FW_CURRENT |
| 114S0263 | 1 | NEW FW RESISTOR - 2.94K | R4002 | CRITICAL | FW_NEW |

FW: 1394B CONTROLLER

SYNC_MASTER=M78_MLB

SYNC_DATE=12/15/2006

NOTICE OF PROPRIETARY PROPERTY

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING

I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

APPLE INC.

SIZE

D

DRAWING NUMBER

051-7229

REV.

H

SCALE

NONE

SHT

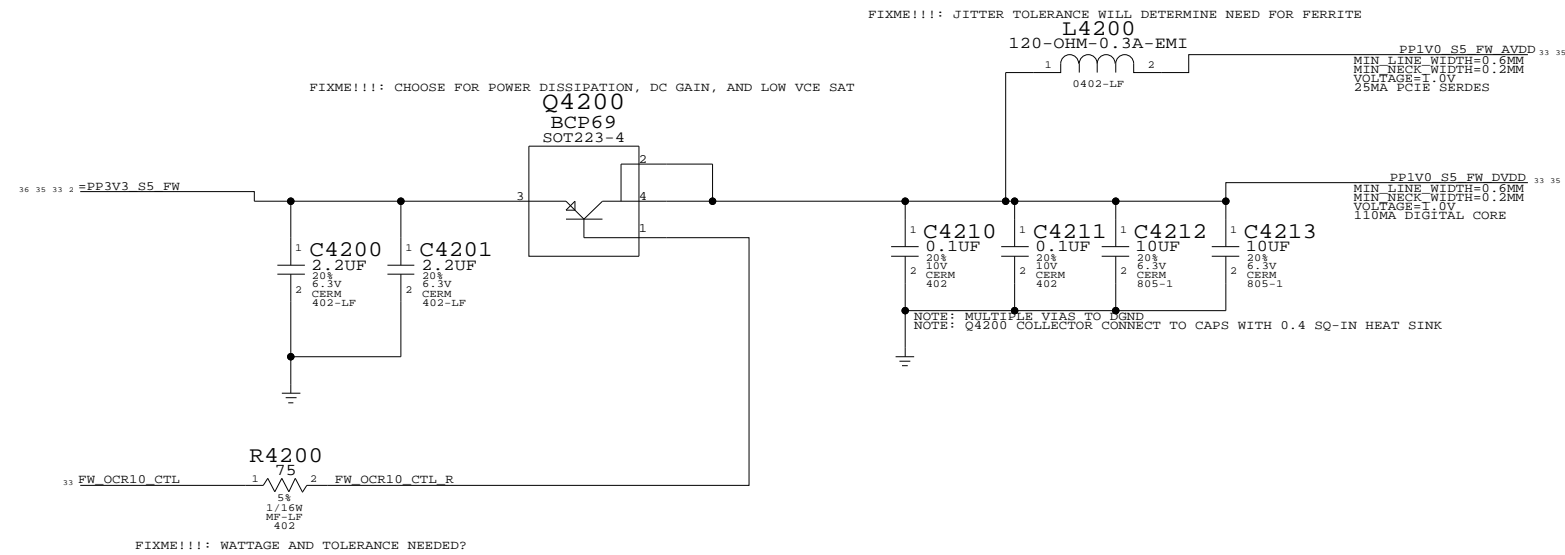
40

OF

118

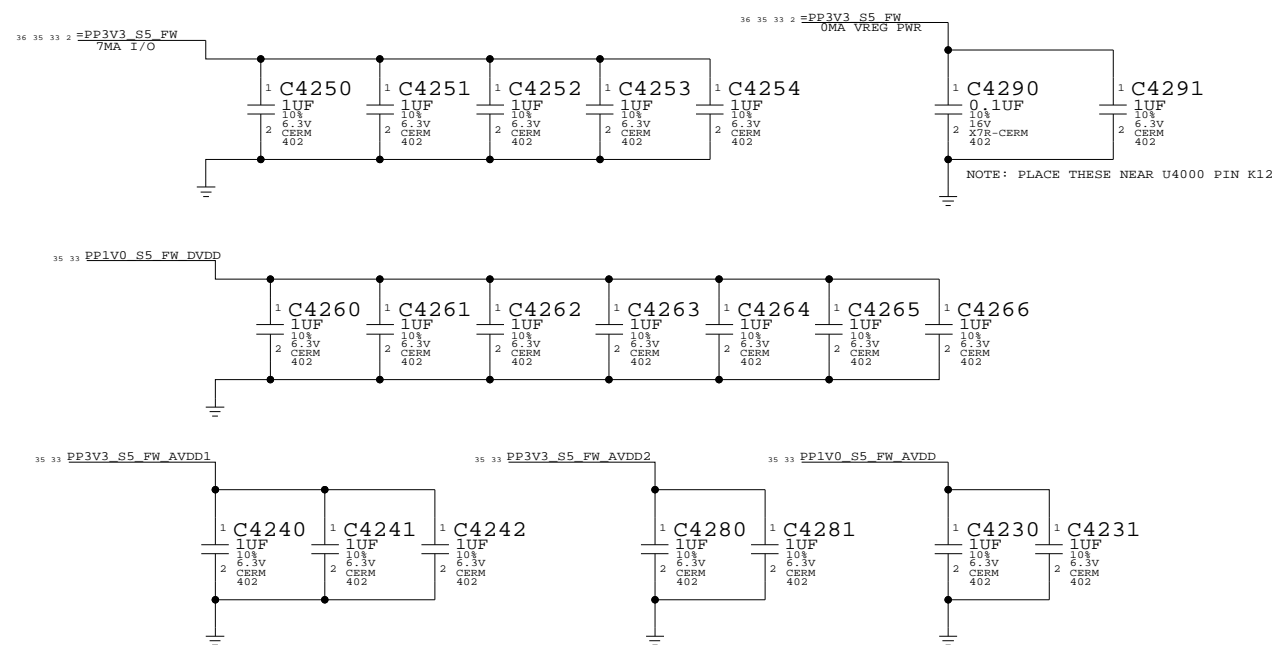


FW643 1.0V GENERATION

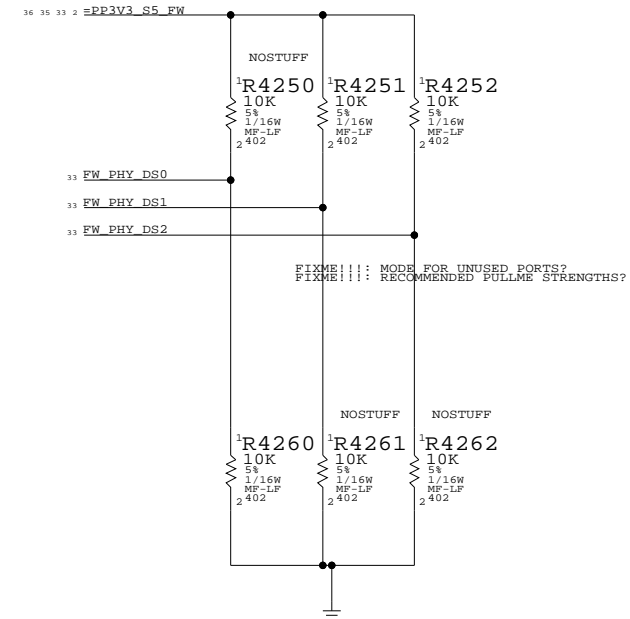


FW643 DECOUPLING

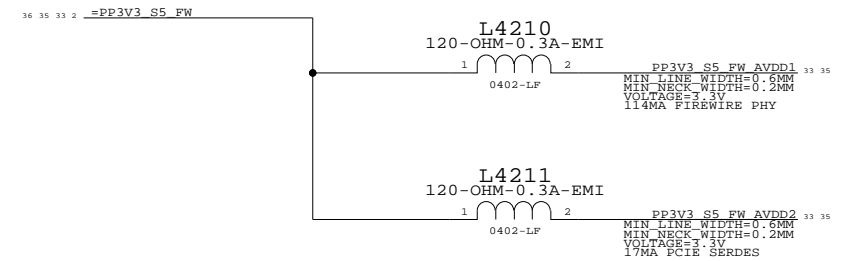
NOTE: PLACE 1 CAP CLOSE TO EACH POWER PIN ON U4000



1394 PHY DATA/STROBE OPTIONS



FW 3.3V FILTERING



FW PCIE ALIASES

| | | | | | |
|----|----|-----------------|----|------------------|----|
| 19 | TP | PCIE_FW_R2D_C_N | == | PCIE_FW_R2D_C_N | 33 |
| | | | | MAKE_BASE=TRUE | |
| 19 | TP | PCIE_FW_R2D_C_P | == | PCIE_FW_R2D_C_P | 33 |
| | | | | MAKE_BASE=TRUE | |
| 33 | 3 | PCIE_FW_D2R_N | == | TP PCIE_FW_D2R_N | 19 |
| | | | | MAKE_BASE=TRUE | |
| 33 | 3 | PCIE_FW_D2R_P | == | TP PCIE_FW_D2R_P | 19 |
| | | | | MAKE_BASE=TRUE | |

FW: 1394B MISC

| | |
|------------------|----------------------|
| SYNC_MASTER=DOUG | SYNC_DATE=10/10/2006 |
|------------------|----------------------|

NOTICE OF PROPRIETARY PROPERTY

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY
PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR
AGREES TO THE FOLLOWING

I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

| | |
|------|----------------|
| SIZE | DRAWING NUMBER |
|------|----------------|



APPLE INC.

| |
|------|
| SIZE |
| D |

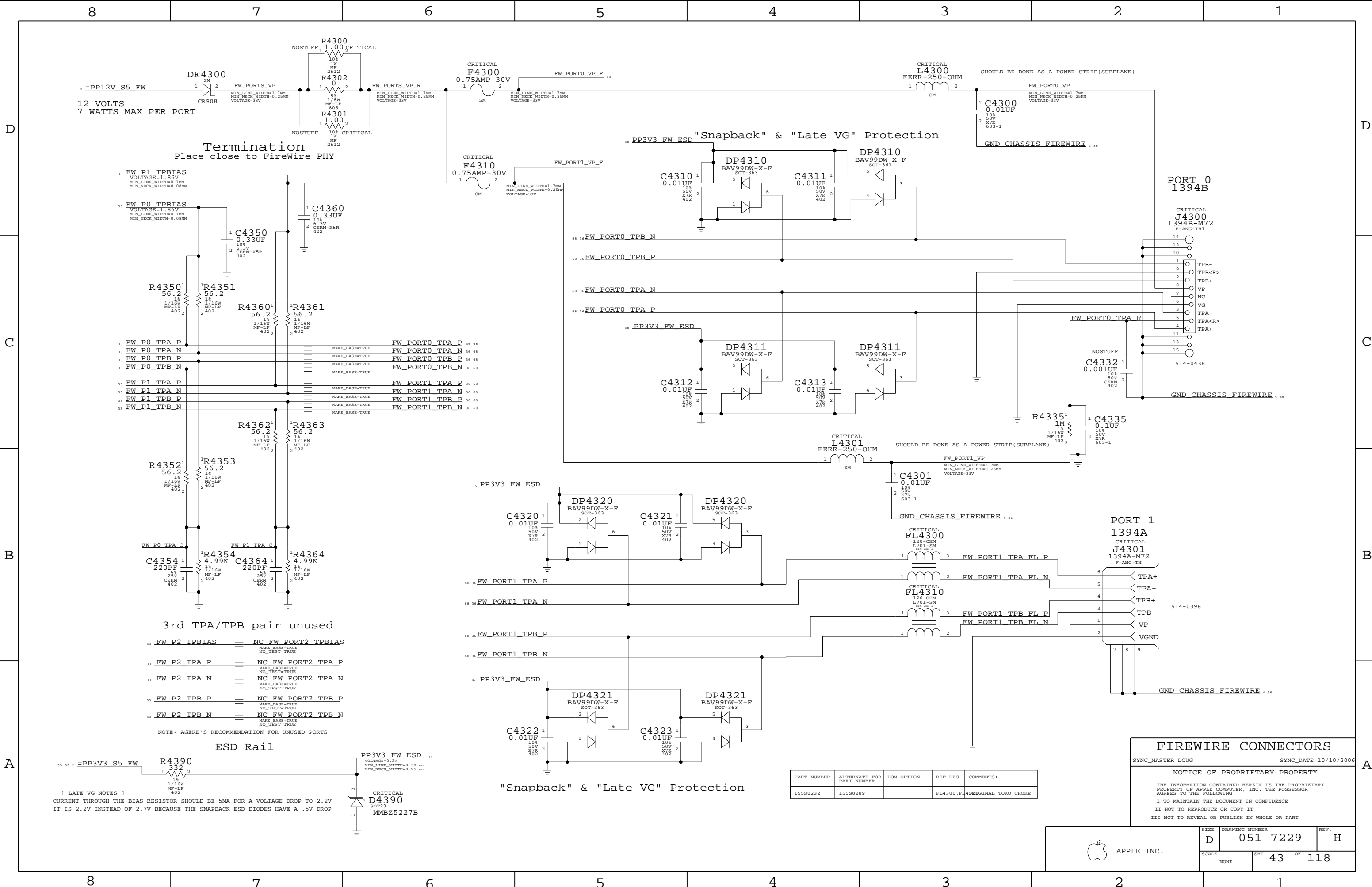
| | |
|------|----------------|
| SIZE | DRAWING NUMBER |
| D | 051-7 |

H

| | |
|-------|------|
| | |
| SCALE | |
| | NONE |

| | | | |
|-----|----|----|-----|
| SHT | 42 | OF | 118 |
|-----|----|----|-----|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|---|---|---|---|---|---|---|---|



Termination
Place close to FireWire PHY

"Snapback" & "Late VG" Protection

PORT 0
1394B

PORT 1
1394A

3rd TPA/TPB pair unused

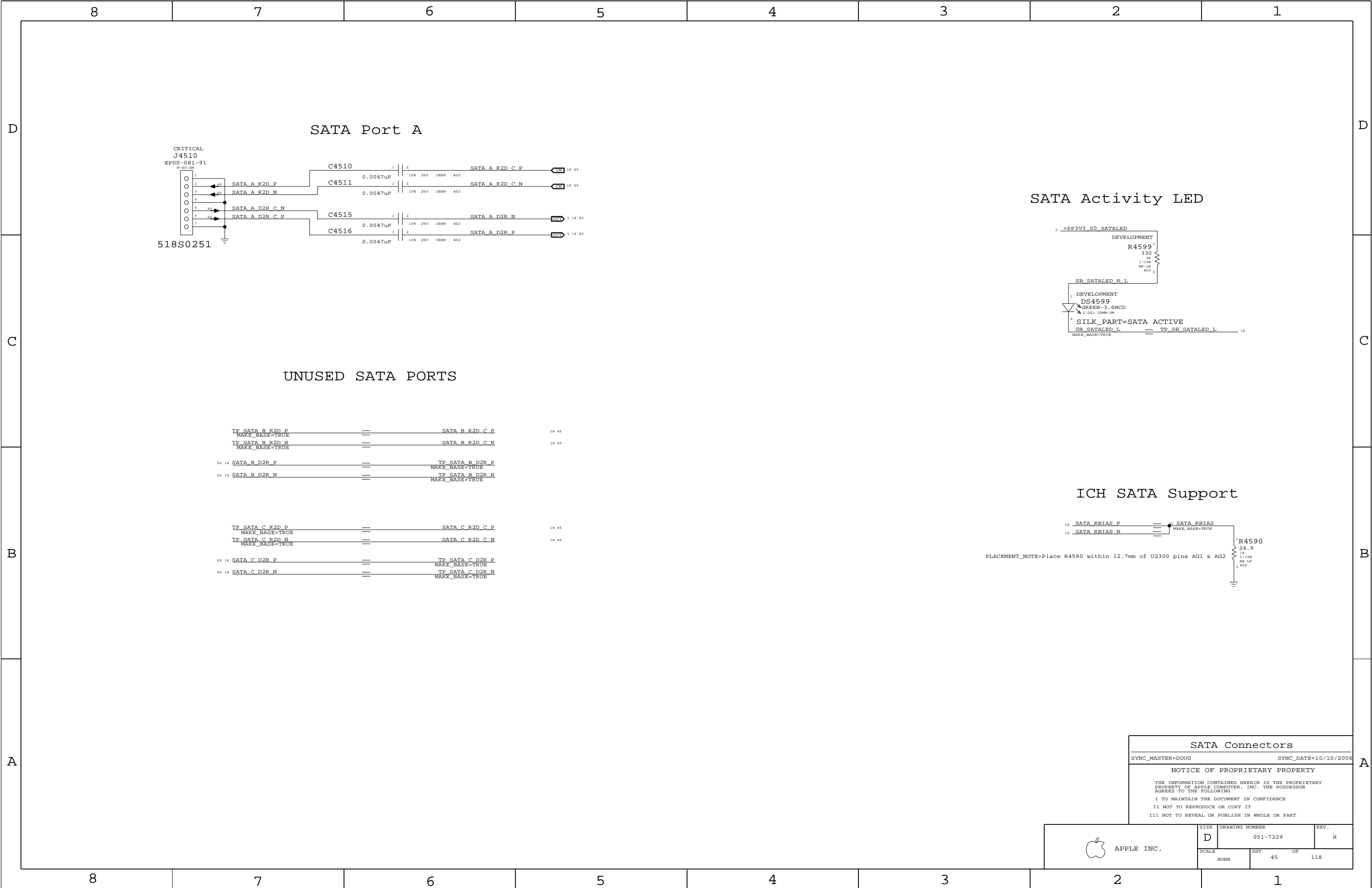
"Snapback" & "Late VG" Protection

FIREWIRE CONNECTORS

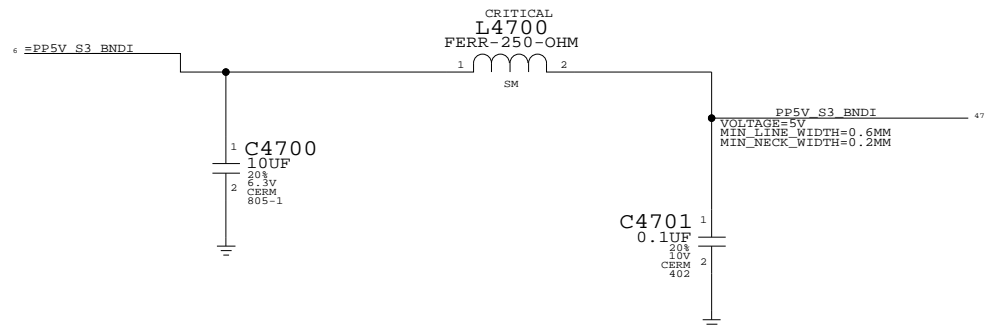
NOTICE OF PROPRIETARY PROPERTY
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING
I TO MAINTAIN THE DOCUMENT IN CONFIDENCE
II NOT TO REPRODUCE OR COPY IT
III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

| PART NUMBER | ALTERNATE FOR PART NUMBER | BOM OPTION | REF DES | COMMENTS |
|-------------|---------------------------|------------|----------------|---------------------|
| 155S0232 | 155S0289 | | FL4300, FL4310 | ORIGINAL TOKO CHOKE |

| | | | |
|------------|---------------|----------------------------|-----------|
| APPLE INC. | SIZE D | DRAWING NUMBER 051-7229 | REV. H |
| | SCALE NONE | SHT 43 | OF 118 |

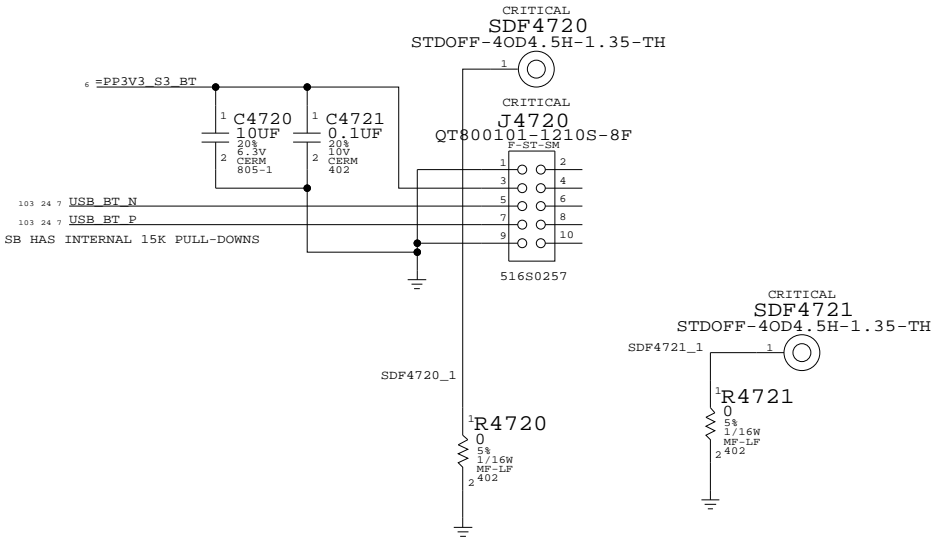


CAMERA POWER FILTERING

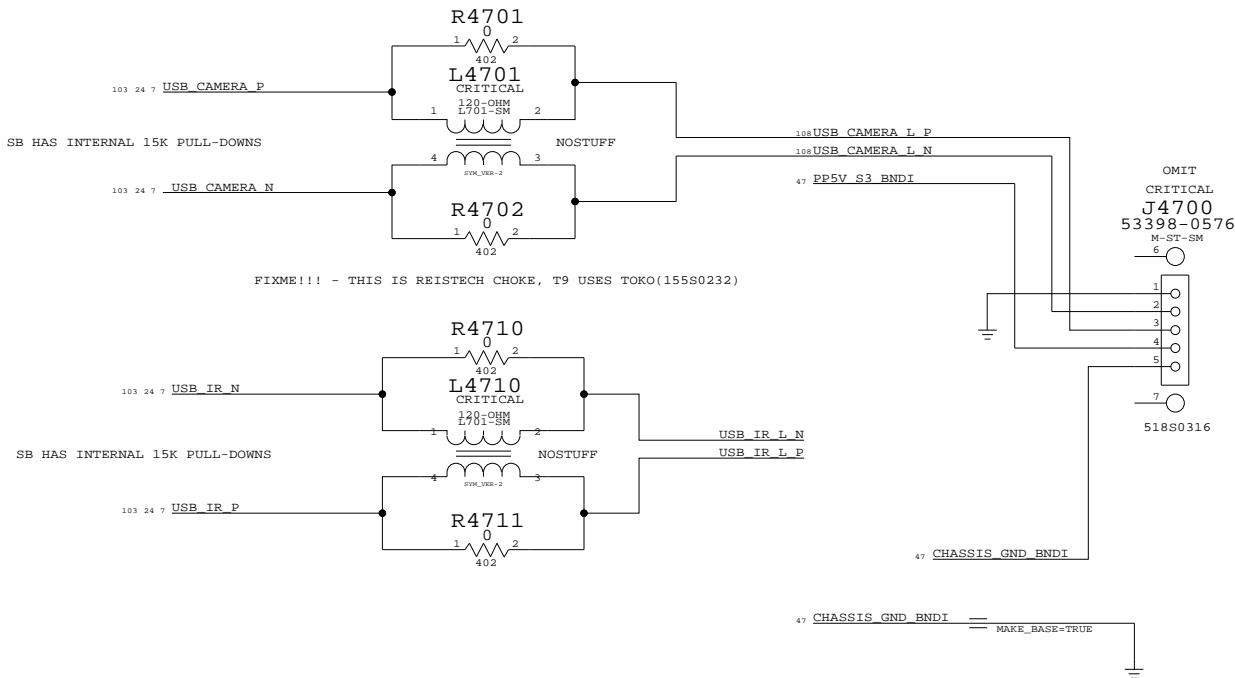


LAYOUT NOTE:
PLACE C4700, C4701 & L4700
NEAR J4700 PINS 4 AND 5 IN THE
ORDER LISTED, AND NOT ON
BOTH SIDES OF THE PIN.

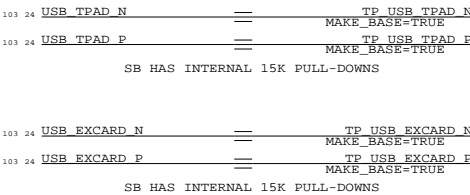
M13D (Bluetooth) Connector



CAMERA CONNECTOR



UNUSED INTERNAL USB PORTS



| PART# | QTY | DESCRIPTION | REFERENCE DESIGNATOR(S) | CRITICAL | BOM OPTION |
|----------|-----|-----------------------------------|-------------------------|----------|------------|
| 518S0553 | 1 | (CONN,S,HDR,5P,P=1.25,STR,BLK LF) | J4700 | CRITICAL | |

Internal USB Connections

SYNC_MASTER=M78_MLB SYNC_DATE=12/15/2006

NOTICE OF PROPRIETARY PROPERTY

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING

I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

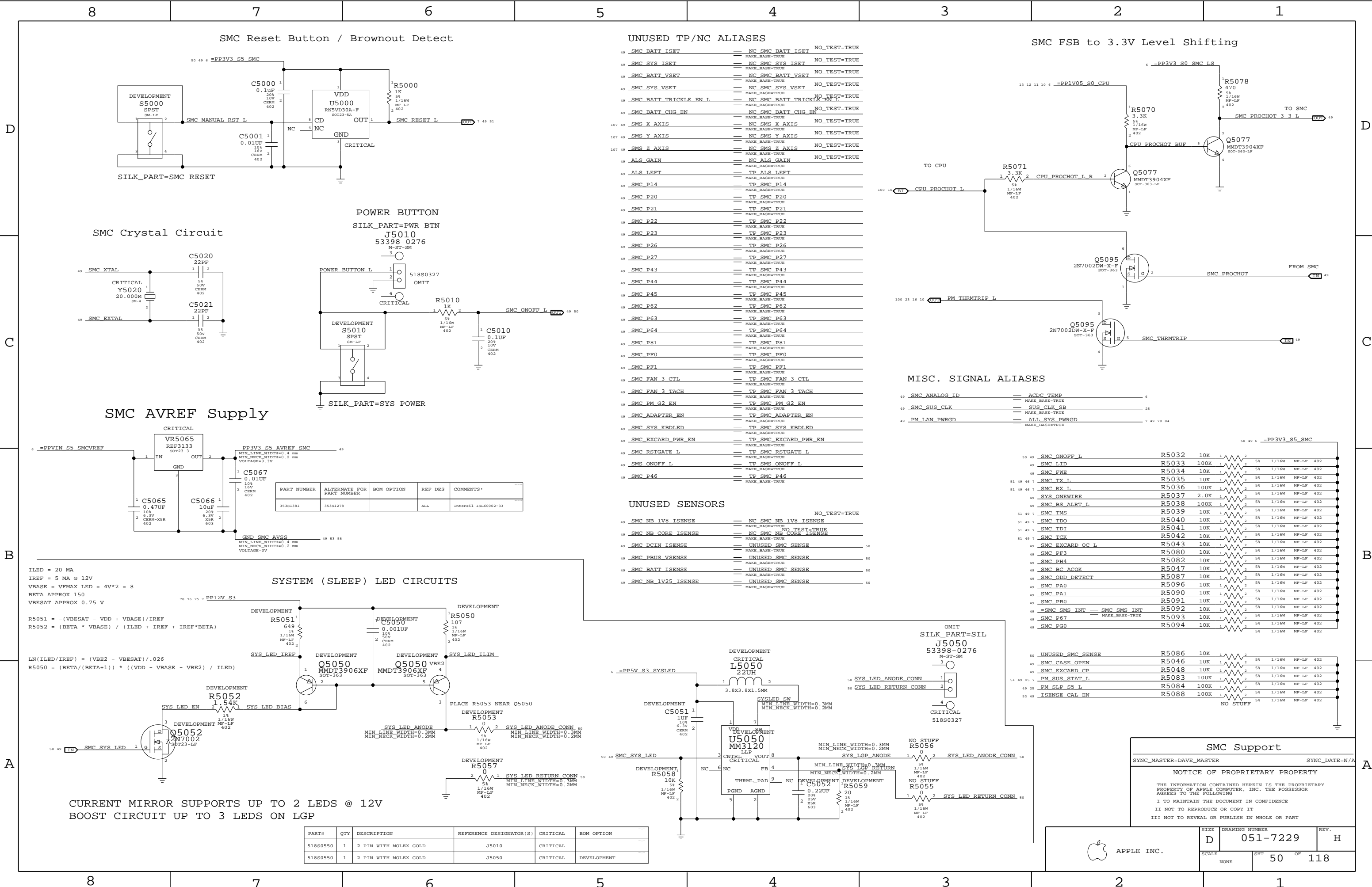
II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART



APPLE INC.

| SIZE | DRAWING NUMBER | REV. |
|-------|----------------|------|
| D | 051-7229 | H |
| SCALE | SHT | OF |
| NONE | 47 | 118 |



D

C

B

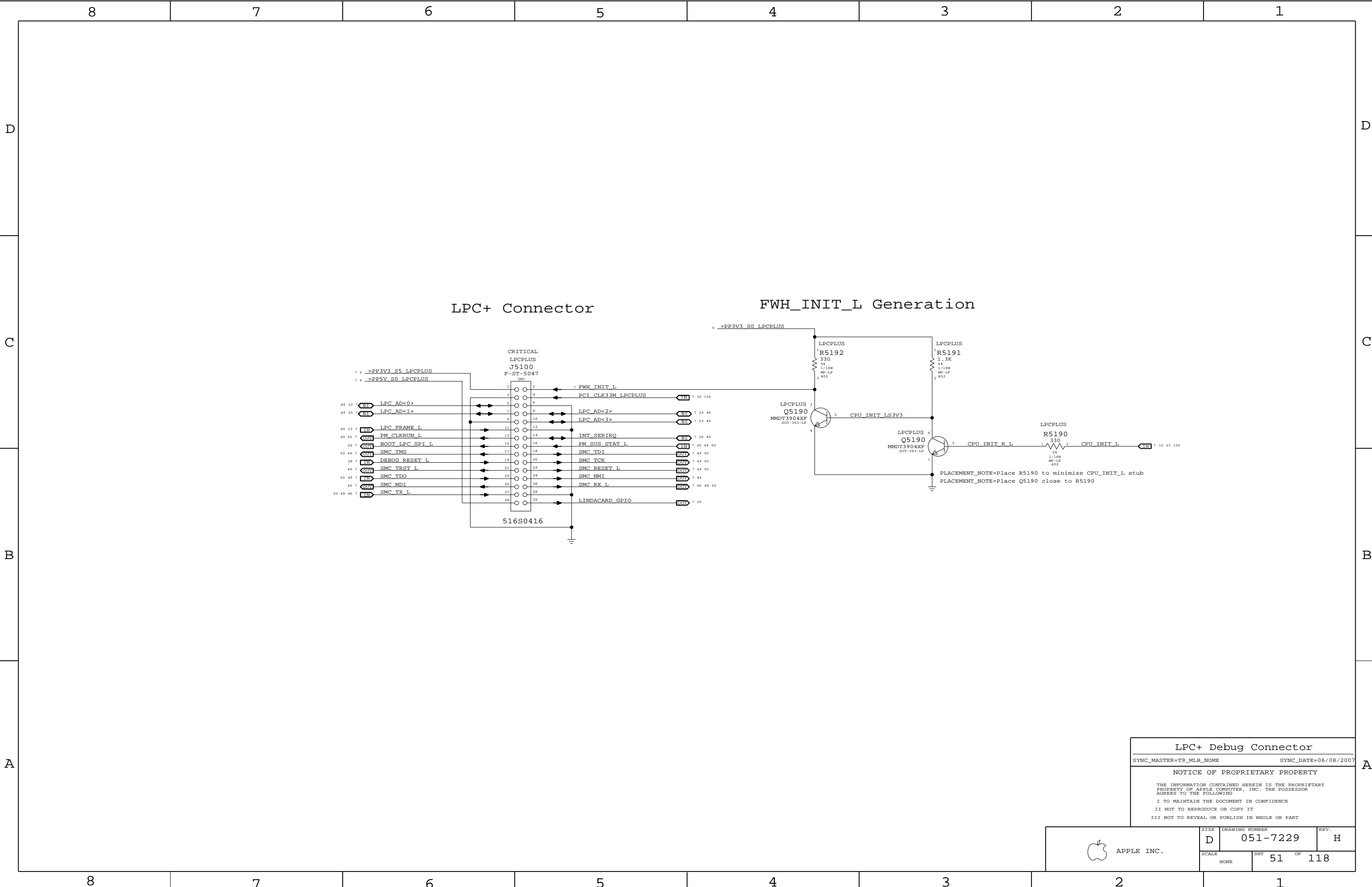
A

D

C

B

A



LPC+ Debug Connector

SYNC_MASTER=T9_MLB_NOME

SYNC_DATE=06/08/2007


NOTICE OF PROPRIETARY PROPERTY

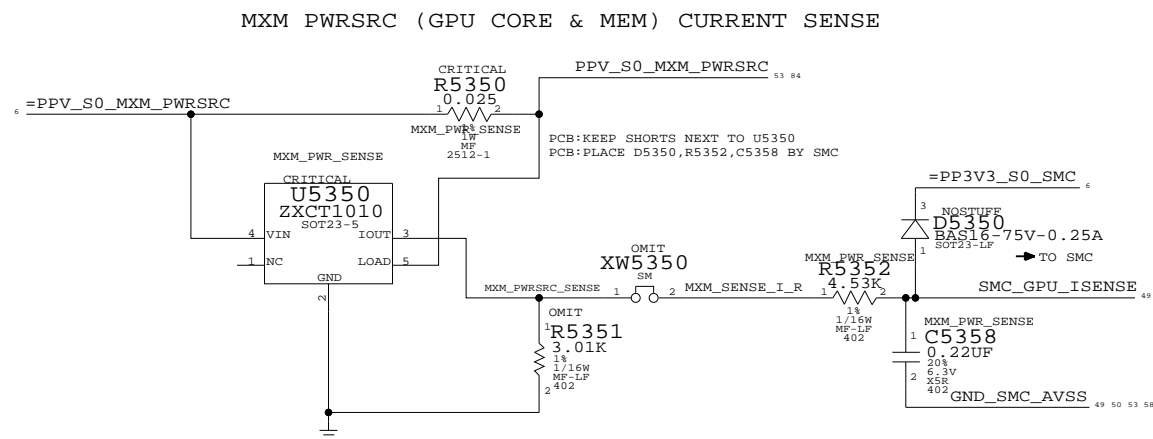
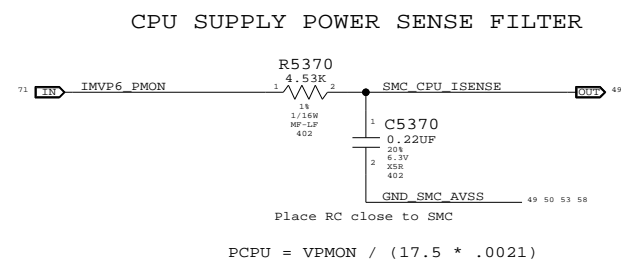
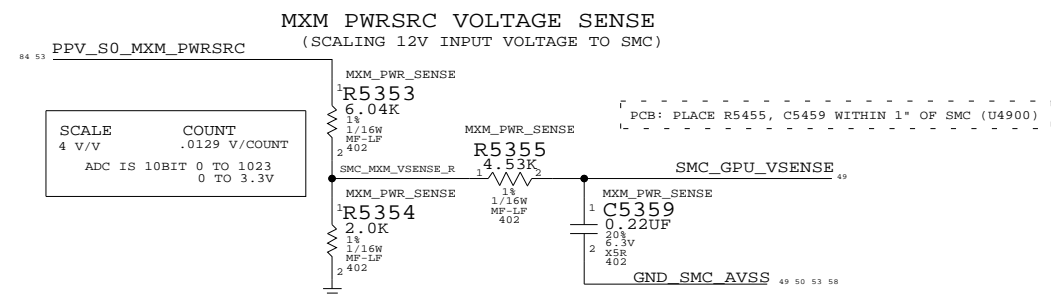
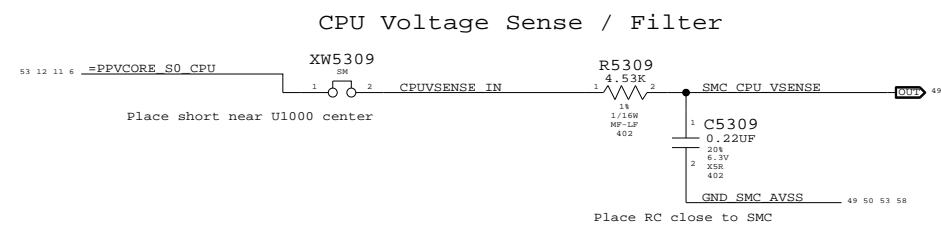
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING

I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

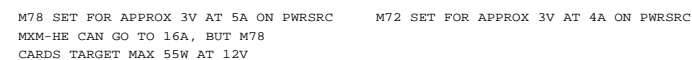
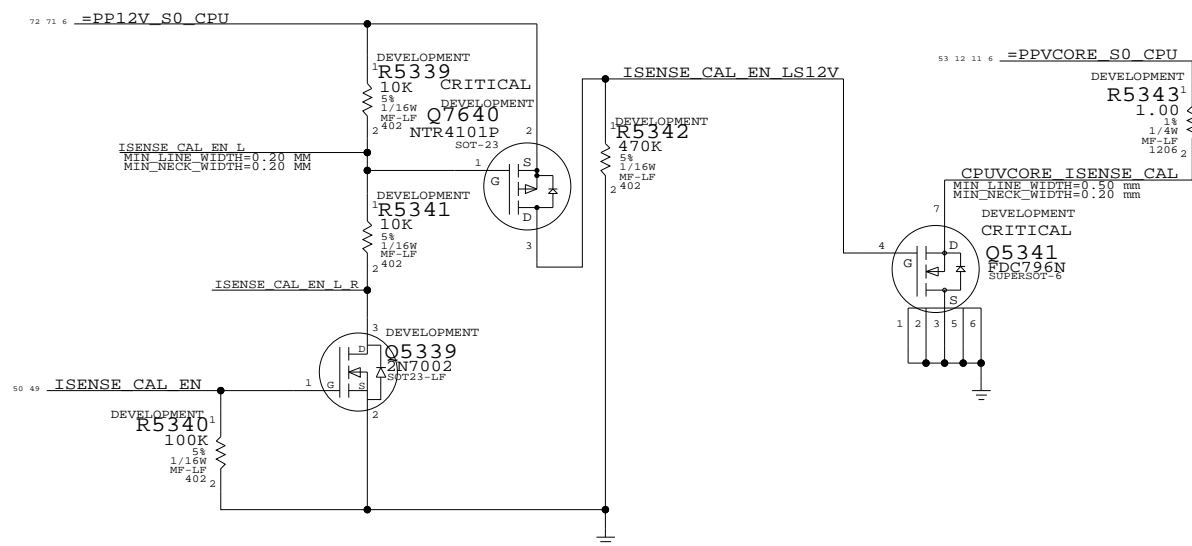
III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

| | | | | |
|--|------|----------------|-----|------|
|  APPLE INC. | SIZE | DRAWING NUMBER | | REV. |
| | D | 051-7229 | | H |
| SCALE | | SHT | OF | |
| NONE | | 51 | 118 | |



CPU POWER SENSE CALIBRATION CIRCUIT

Switches in fixed load on power supplies to calibrate current sense circuits

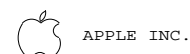


| SCALE | COUNT |
|--------------|--------------------|
| 1.6461 A/V | .005309969 A/COUNT |
| ADC IS 10BIT | 0 TO 1023 |
| | 0 TO 3.3V |

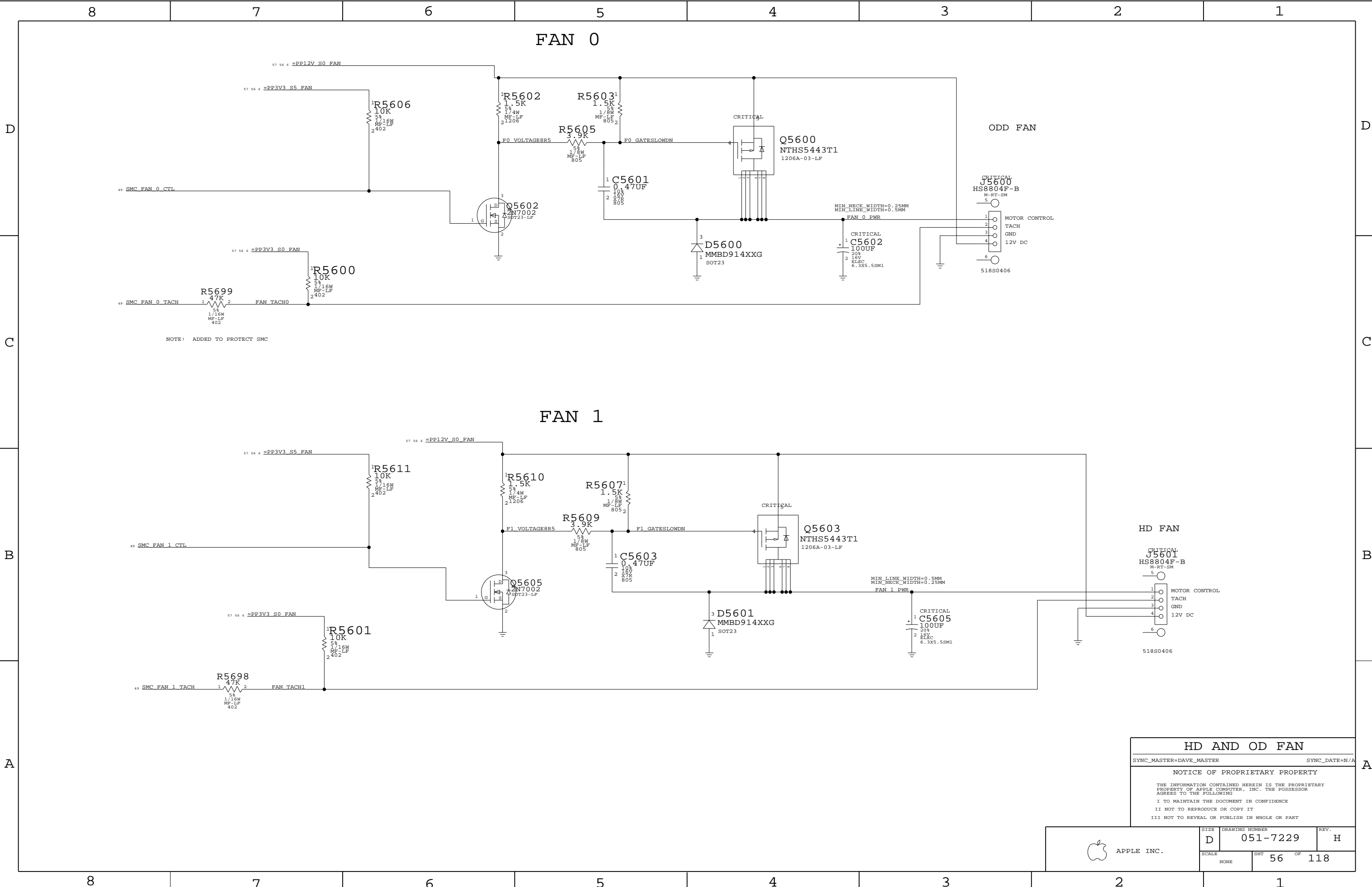
| SCALE | COUNT |
|--------------|--------------------|
| 1.3289 A/V | .004286786 A/COUNT |
| ADC IS 10BIT | 0 TO 1023 |
| | 0 TO 3.3V |

| PART# | QTY | DESCRIPTION | REFERENCE DESIGNATOR(S) | BOM OPTION |
|----------|-----|---------------------|-------------------------|-------------|
| 114S0264 | 1 | RES, 3.01K, 1%, 402 | R5351 | 20_INCH_LCD |
| 114S0254 | 1 | RES, 2.43K, 1%, 402 | R5351 | 24_INCH_LCD |

| | |
|--|---------------|
| Current & Voltage Sensing | |
| SYNC_MASTER=DAVE_MASTER | SYNC_DATE=N/A |
| NOTICE OF PROPRIETARY PROPERTY | |
| THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING | |
| I TO MAINTAIN THE DOCUMENT IN CONFIDENCE | |
| II NOT TO REVEAL OR COPY IT | |
| III NOT TO REPRODUCE OR PUBLISH IN WHOLE OR PART | |



| | | |
|-------|----------------|------|
| SIZE | DRAWING NUMBER | REV. |
| D | 051-7229 | H |
| SCALE | SHT | OF |
| NONE | 53 | 118 |



HD AND OD FAN

SYNC_MASTER=DAVE_MASTER SYNC_DATE=N/A

NOTICE OF PROPRIETARY PROPERTY

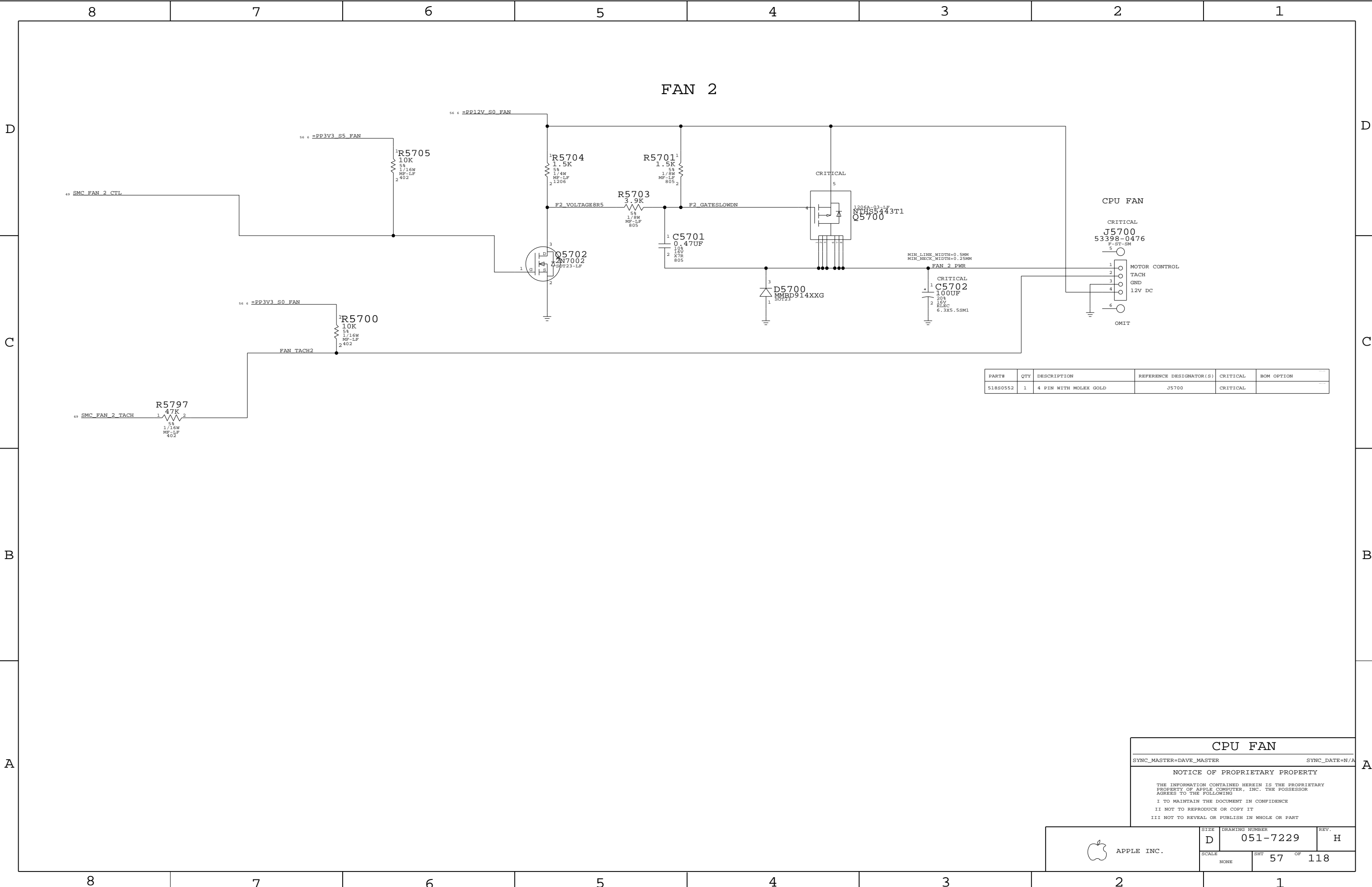
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING

I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

| | | | |
|------------|------|----------------|------|
| APPLE INC. | SIZE | DRAWING NUMBER | REV. |
| | D | 051-7229 | H |
| SCALE | | SHT | OF |
| NONE | | 56 | 118 |



| PART# | QTY | DESCRIPTION | REFERENCE DESIGNATOR(S) | CRITICAL | BOM OPTION |
|----------|-----|-----------------------|-------------------------|----------|------------|
| 518S0552 | 1 | 4 PIN WITH MOLEX GOLD | J5700 | CRITICAL | |

CPU FAN

SYNC_MASTER=DAVE_MASTERSYNC_DATE=N/A

NOTICE OF PROPRIETARY PROPERTY

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING

I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

APPLE INC.

SIZE

D

DRAWING NUMBER

051-7229

REV.

H

SCALE

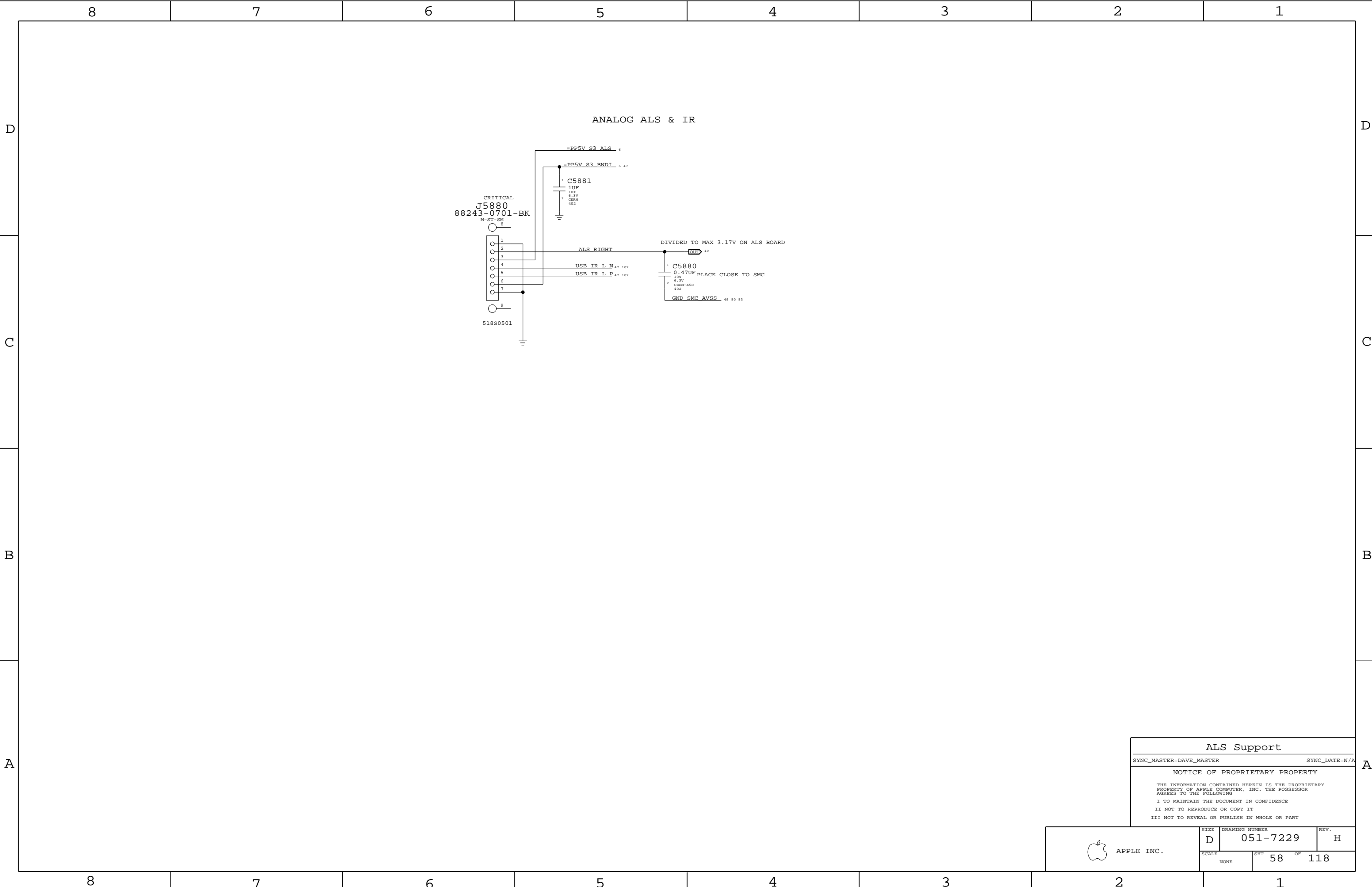
NONE

SHT


57

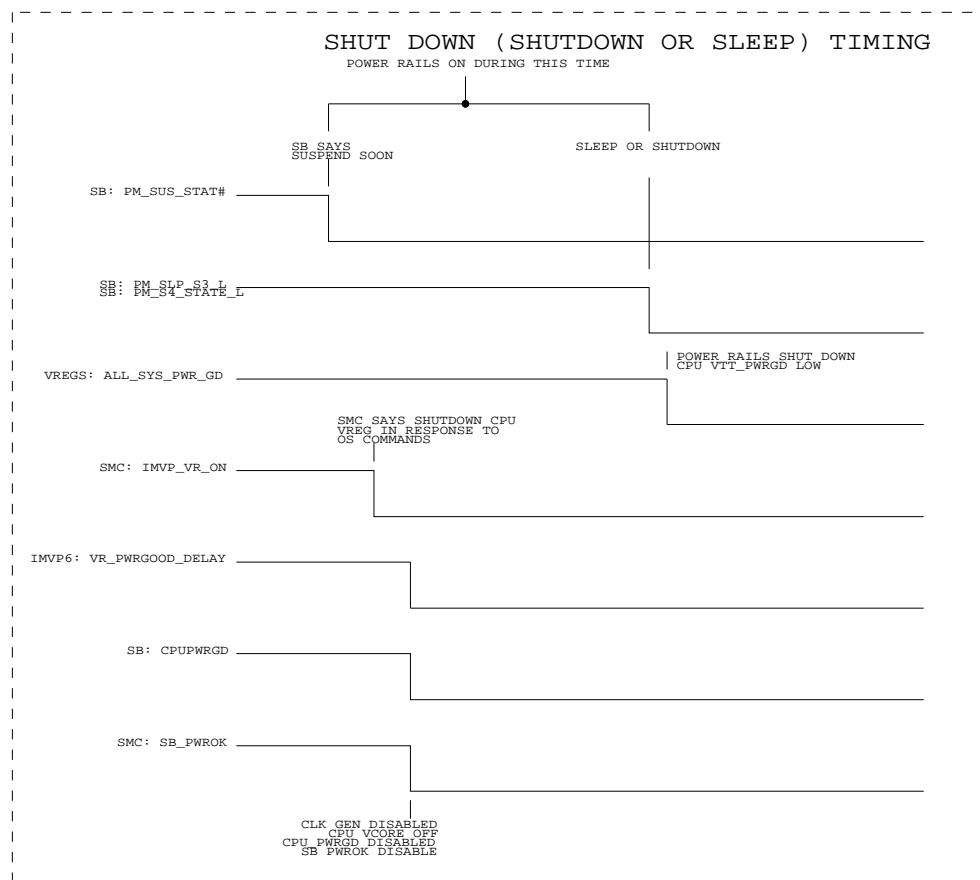
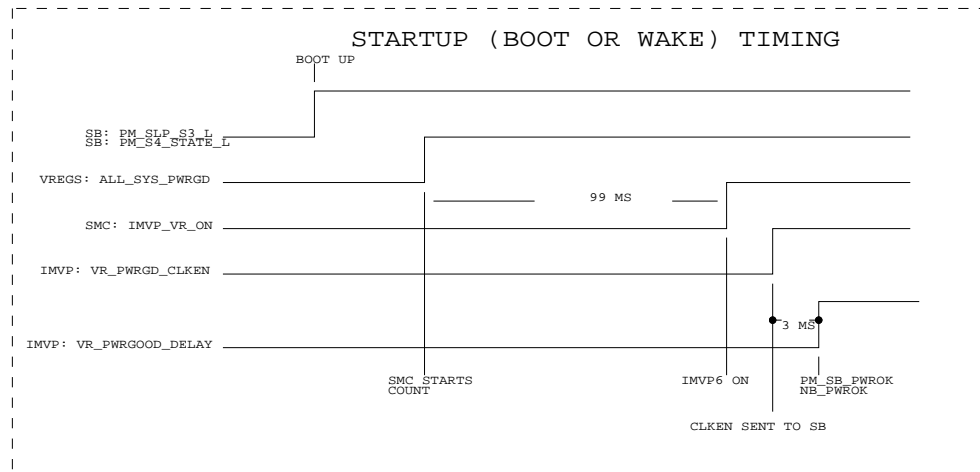
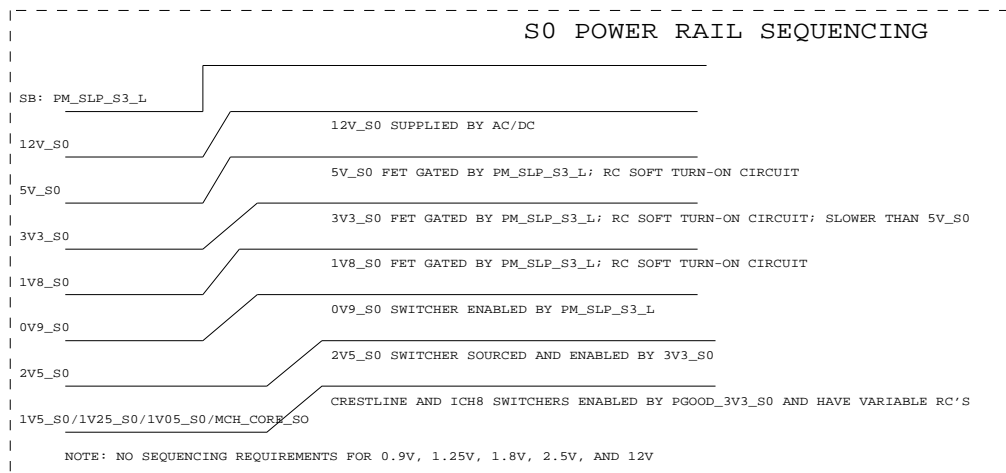
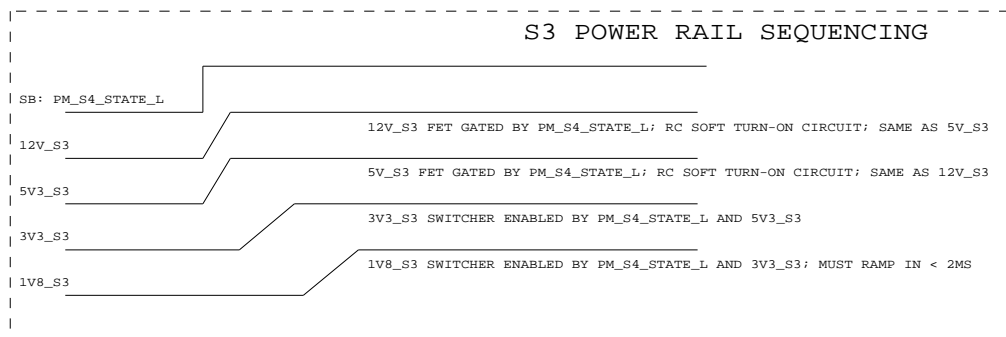
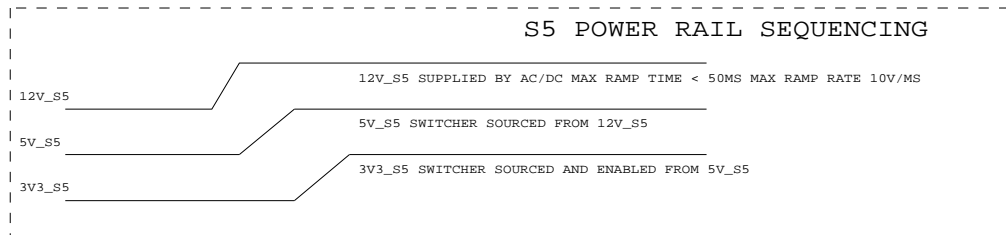
OF

118




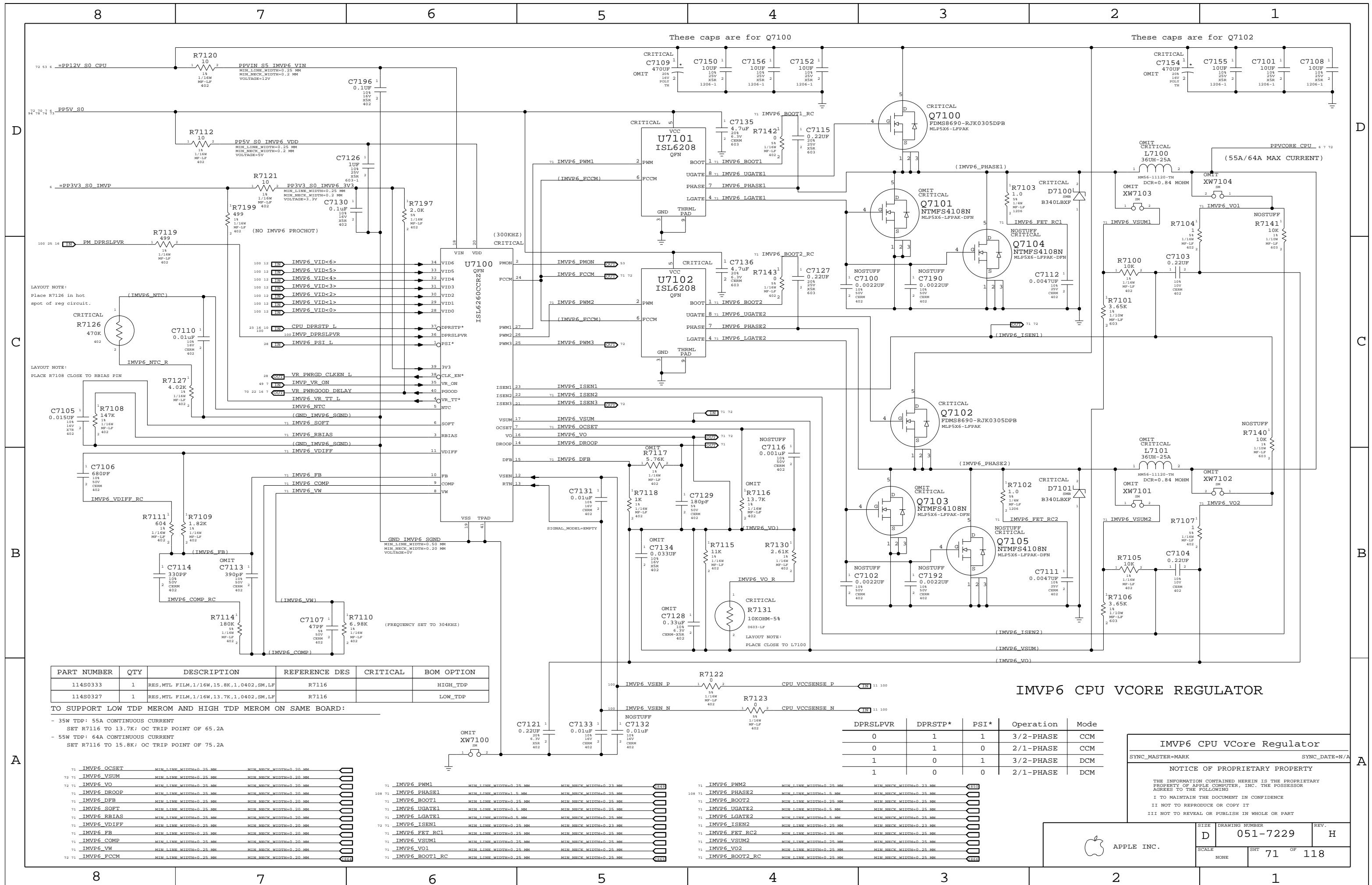
| | | |
|--|--|---------------|
| ALS Support | | |
| SYNC_MASTER=DAVE_MASTER | | SYNC_DATE=N/A |
| NOTICE OF PROPRIETARY PROPERTY | | |
| THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING | | |
| I TO MAINTAIN THE DOCUMENT IN CONFIDENCE | | |
| II NOT TO REPRODUCE OR COPY IT | | |
| III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART | | |

| | | | |
|--|---------------|----------------------------|-----------|
|  APPLE INC. | SIZE D | DRAWING NUMBER 051-7229 | REV. H |
| | SCALE NONE | SHT 58 OF 118 | |



| | |
|--|---------------|
| POWER SEQUENCING BLOCK DIAGRAM | |
| SYNC_MASTER=MARK | SYNC_DATE=N/A |
| NOTICE OF PROPRIETARY PROPERTY | |
| <p>THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING</p> <p>I TO MAINTAIN THE DOCUMENT IN CONFIDENCE</p> <p>II NOT TO REPRODUCE OR COPY IT</p> <p>III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART</p> | |

| | | | | |
|--|-------|----------------|-----|------|
|  APPLE INC. | SIZE | DRAWING NUMBER | | REV. |
| | D | 051-7229 | | H |
| | SCALE | SHT | OF | |
| | NONE | 69 | 118 | |



[illegible]

8 7 6 5 4 3 2 1

IMVP6 CPU VCORE REGULATOR

71 53 6 PP12V_S0 CPU

84 78 74 73 71 70 7 6 PP5V_S0

CRITICAL

U7201
ISL6208
QFN

BOOT 1 72 IMVP6_BOOT3

UGATE 8 72 IMVP6_UGATE3

PHASE 7 IMVP6_PHASE3

LGATE 4 72 IMVP6_LGATE3

GND

THRM_L
PAD

R7250
0
1 2 72 IMVP6_BOOT3_RC

C7215
0.22UF
1 2 20V 25V XSR 603

CRITICAL

Q7200
FDM58690-RJK0305DPB
MLP5X6-LFPAK

CRITICAL

Q7201
NTMFS4108N
MLP5X6-LFPAK-DFN

CRITICAL

Q7204
NTMFS4108N
MLP5X6-LFPAK-DFN

CRITICAL

D7200
B340LBXF

CRITICAL

L7200
36UH-25A

CRITICAL

XW7204
SM

CRITICAL

XW7203
SM

CRITICAL

R7204
10K
1 2 72 IMVP6_VO3

CRITICAL

R7200
10K
1 2 72 IMVP6_VSUM3

CRITICAL

R7201
3.65K
1 2 72 IMVP6_ISEN3

CRITICAL

C7203
0.22UF
1 2 10V 10V XSR 402

CRITICAL

C7201
100UF
1 2 10V 25V XSR 1206-1

CRITICAL

C7208
100UF
1 2 10V 25V XSR 1206-1

CRITICAL

C7255
100UF
1 2 10V 25V XSR 1206-1

CRITICAL

C7254
470UF
1 2 10V 25V XSR 1206-1

CRITICAL

C7200
0.0022UF
1 2 10V 50V XSR 402

CRITICAL

C7290
0.0022UF
1 2 10V 50V XSR 402

CRITICAL

C7212
0.0047UF
1 2 10V 25V XSR 402

CRITICAL

R7203
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7202
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7201
3.65K
1 2 72 IMVP6_ISEN3

CRITICAL

R7200
10K
1 2 72 IMVP6_VSUM3

CRITICAL

R7204
10K
1 2 72 IMVP6_VO3

CRITICAL

R7203
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7202
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7201
3.65K
1 2 72 IMVP6_ISEN3

CRITICAL

R7200
10K
1 2 72 IMVP6_VSUM3

CRITICAL

R7204
10K
1 2 72 IMVP6_VO3

CRITICAL

R7203
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7202
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7201
3.65K
1 2 72 IMVP6_ISEN3

CRITICAL

R7200
10K
1 2 72 IMVP6_VSUM3

CRITICAL

R7204
10K
1 2 72 IMVP6_VO3

CRITICAL

R7203
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7202
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7201
3.65K
1 2 72 IMVP6_ISEN3

CRITICAL

R7200
10K
1 2 72 IMVP6_VSUM3

CRITICAL

R7204
10K
1 2 72 IMVP6_VO3

CRITICAL

R7203
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7202
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7201
3.65K
1 2 72 IMVP6_ISEN3

CRITICAL

R7200
10K
1 2 72 IMVP6_VSUM3

CRITICAL

R7204
10K
1 2 72 IMVP6_VO3

CRITICAL

R7203
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7202
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7201
3.65K
1 2 72 IMVP6_ISEN3

CRITICAL

R7200
10K
1 2 72 IMVP6_VSUM3

CRITICAL

R7204
10K
1 2 72 IMVP6_VO3

CRITICAL

R7203
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7202
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7201
3.65K
1 2 72 IMVP6_ISEN3

CRITICAL

R7200
10K
1 2 72 IMVP6_VSUM3

CRITICAL

R7204
10K
1 2 72 IMVP6_VO3

CRITICAL

R7203
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7202
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7201
3.65K
1 2 72 IMVP6_ISEN3

CRITICAL

R7200
10K
1 2 72 IMVP6_VSUM3

CRITICAL

R7204
10K
1 2 72 IMVP6_VO3

CRITICAL

R7203
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7202
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7201
3.65K
1 2 72 IMVP6_ISEN3

CRITICAL

R7200
10K
1 2 72 IMVP6_VSUM3

CRITICAL

R7204
10K
1 2 72 IMVP6_VO3

CRITICAL

R7203
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7202
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7201
3.65K
1 2 72 IMVP6_ISEN3

CRITICAL

R7200
10K
1 2 72 IMVP6_VSUM3

CRITICAL

R7204
10K
1 2 72 IMVP6_VO3

CRITICAL

R7203
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7202
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7201
3.65K
1 2 72 IMVP6_ISEN3

CRITICAL

R7200
10K
1 2 72 IMVP6_VSUM3

CRITICAL

R7204
10K
1 2 72 IMVP6_VO3

CRITICAL

R7203
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7202
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7201
3.65K
1 2 72 IMVP6_ISEN3

CRITICAL

R7200
10K
1 2 72 IMVP6_VSUM3

CRITICAL

R7204
10K
1 2 72 IMVP6_VO3

CRITICAL

R7203
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7202
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7201
3.65K
1 2 72 IMVP6_ISEN3

CRITICAL

R7200
10K
1 2 72 IMVP6_VSUM3

CRITICAL

R7204
10K
1 2 72 IMVP6_VO3

CRITICAL

R7203
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7202
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7201
3.65K
1 2 72 IMVP6_ISEN3

CRITICAL

R7200
10K
1 2 72 IMVP6_VSUM3

CRITICAL

R7204
10K
1 2 72 IMVP6_VO3

CRITICAL

R7203
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7202
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7201
3.65K
1 2 72 IMVP6_ISEN3

CRITICAL

R7200
10K
1 2 72 IMVP6_VSUM3

CRITICAL

R7204
10K
1 2 72 IMVP6_VO3

CRITICAL

R7203
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7202
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7201
3.65K
1 2 72 IMVP6_ISEN3

CRITICAL

R7200
10K
1 2 72 IMVP6_VSUM3

CRITICAL

R7204
10K
1 2 72 IMVP6_VO3

CRITICAL

R7203
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7202
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7201
3.65K
1 2 72 IMVP6_ISEN3

CRITICAL

R7200
10K
1 2 72 IMVP6_VSUM3

CRITICAL

R7204
10K
1 2 72 IMVP6_VO3

CRITICAL

R7203
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7202
1.0
1 2 72 IMVP6_FET_RC3

CRITICAL

R7201
3.65K
1 2 72 IMVP6_ISEN3

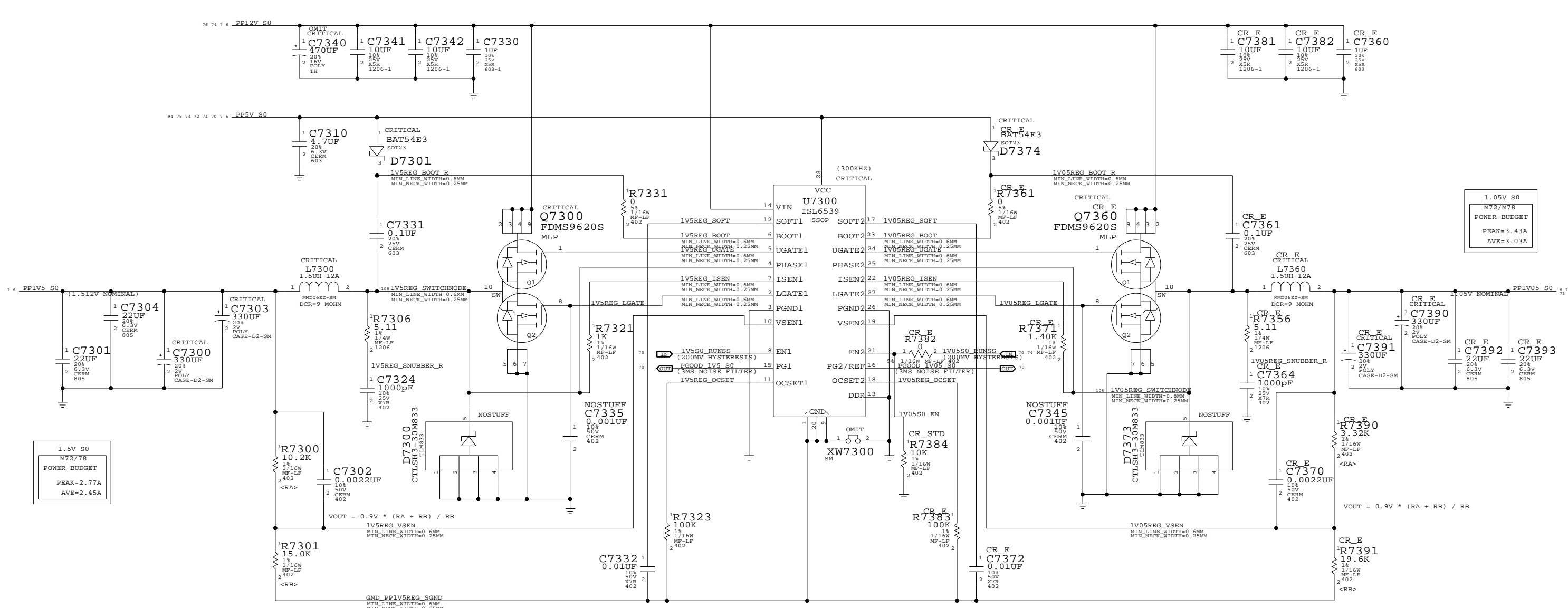
CRITICAL

<

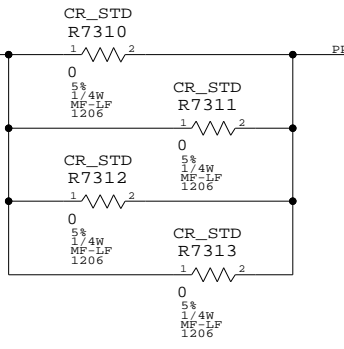
IMVP6 CPU VCORE REGULATOR

IMVP6 CPU VCORE REGULATOR

1.5V S0 & 1.05V S0 RAILS



PLANE SHORTING RESISTORS



1.5V / 1.05V SUPPLIES

SYNC_MASTER=MARK SYNC_DATE=N/A

NOTICE OF PROPRIETARY PROPERTY

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING

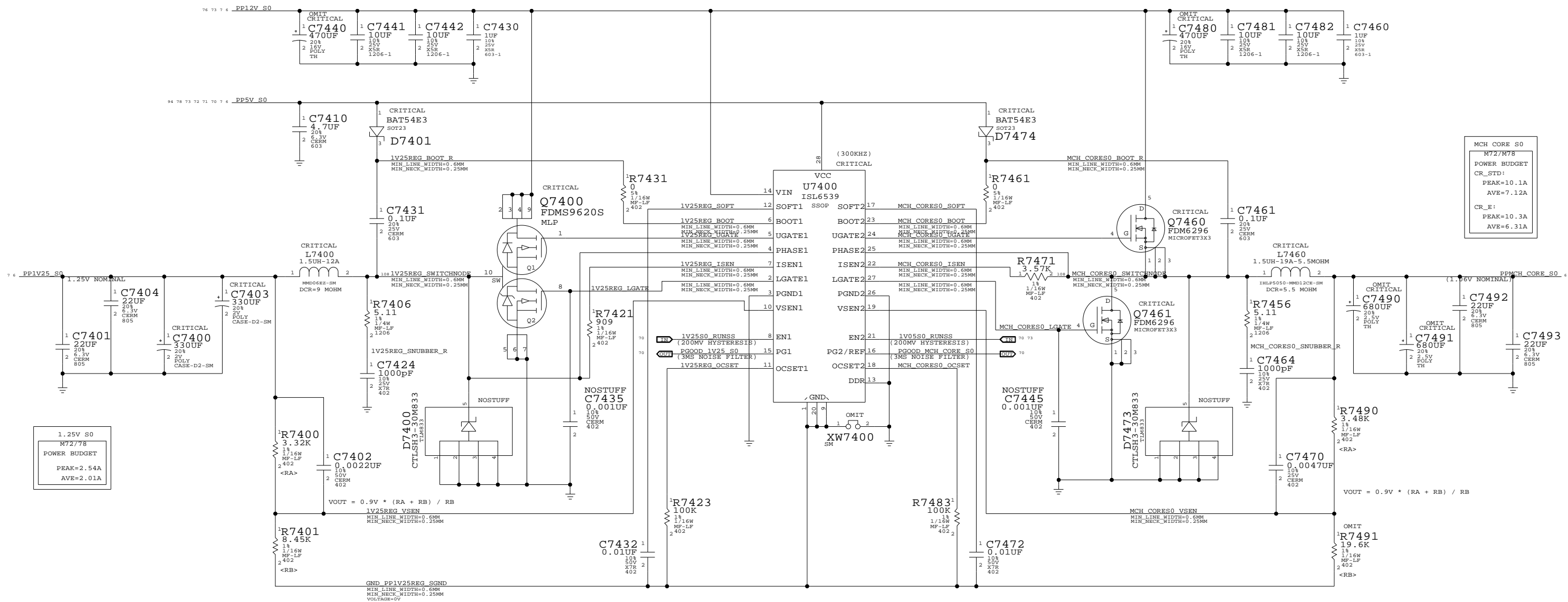
I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

| | | | |
|------------|------|----------------|------|
| APPLE INC. | SIZE | DRAWING NUMBER | REV. |
| | D | 051-7229 | H |
| SCALE | | SHT | OF |
| NONE | | 73 | 118 |

1.25V S0 & MCH CORE RAILS



| PART NUMBER | QTY | DESCRIPTION | REFERENCE DES | CRITICAL | BOM OPTION |
|-------------|-----|--|---------------|----------|------------|
| 114S0342 | 1 | RES,MTL FILM,1/16W,19.6K,1,0402,SMD,LF | R7491 | | CR_STD |
| 114S0309 | 1 | RES,MTL FILM,1/16W,8.66K,1,0402,SMD,LF | R7491 | | CR_E |

1.25V / MCH CORE SUPPLIES

SYNC_MASTER=MARK SYNC_DATE=N/A


NOTICE OF PROPRIETARY PROPERTY

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING

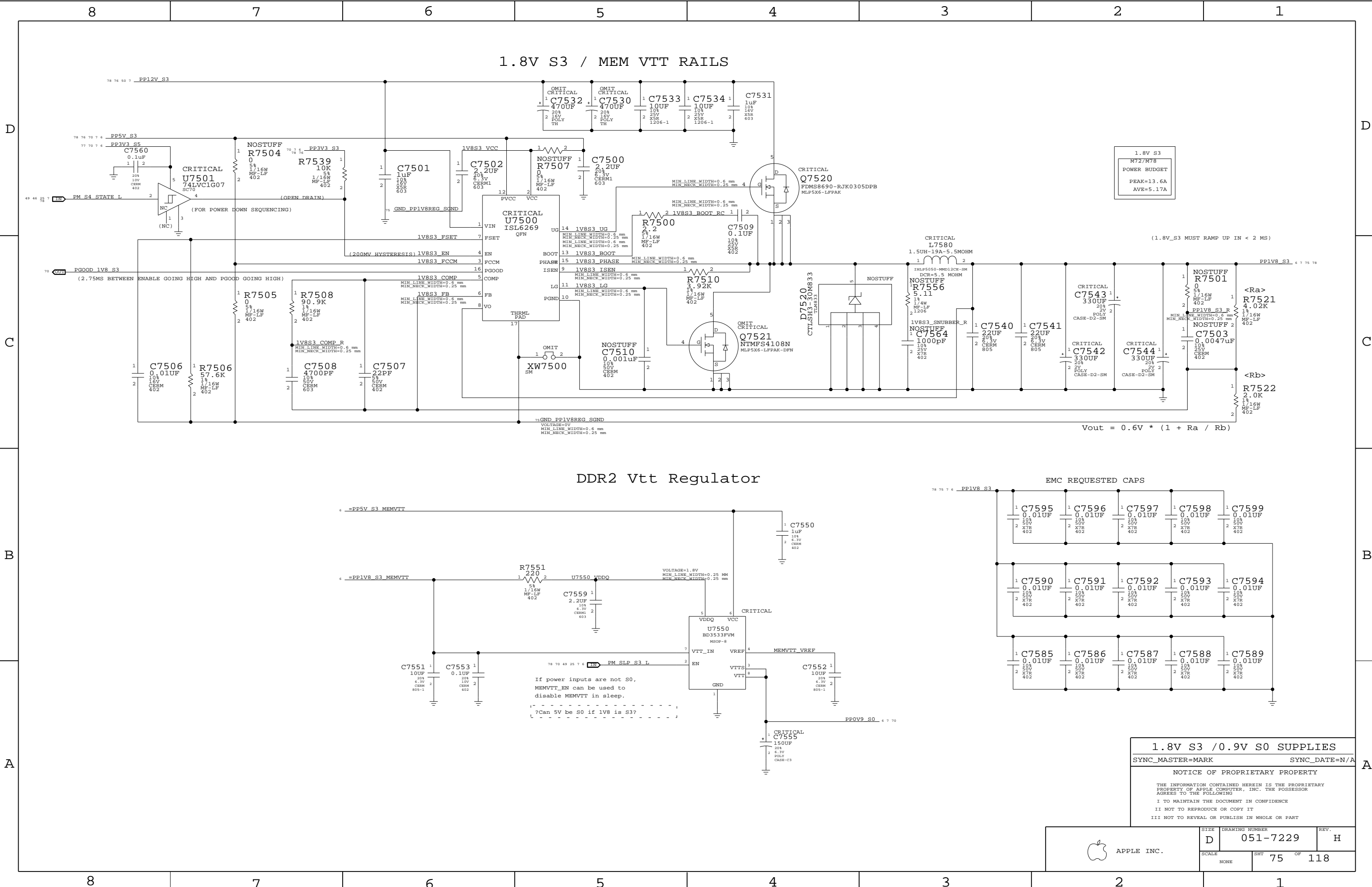
I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

 APPLE INC.

| | | |
|---------------|----------------------------|-----------|
| SIZE D | DRAWING NUMBER 051-7229 | REV. H |
| SCALE NONE | SHT 74 | OF 118 |



1.8V S3 / MEM VTT RAILS

| |
|--------------|
| 1.8V S3 |
| M72/M78 |
| POWER BUDGET |
| PEAK=13.6A |
| AVE=5.17A |

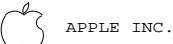
(1.8V_S3 MUST RAMP UP IN < 2 MS)

$V_{out} = 0.6V * (1 + R_a / R_b)$

DDR2 Vtt Regulator

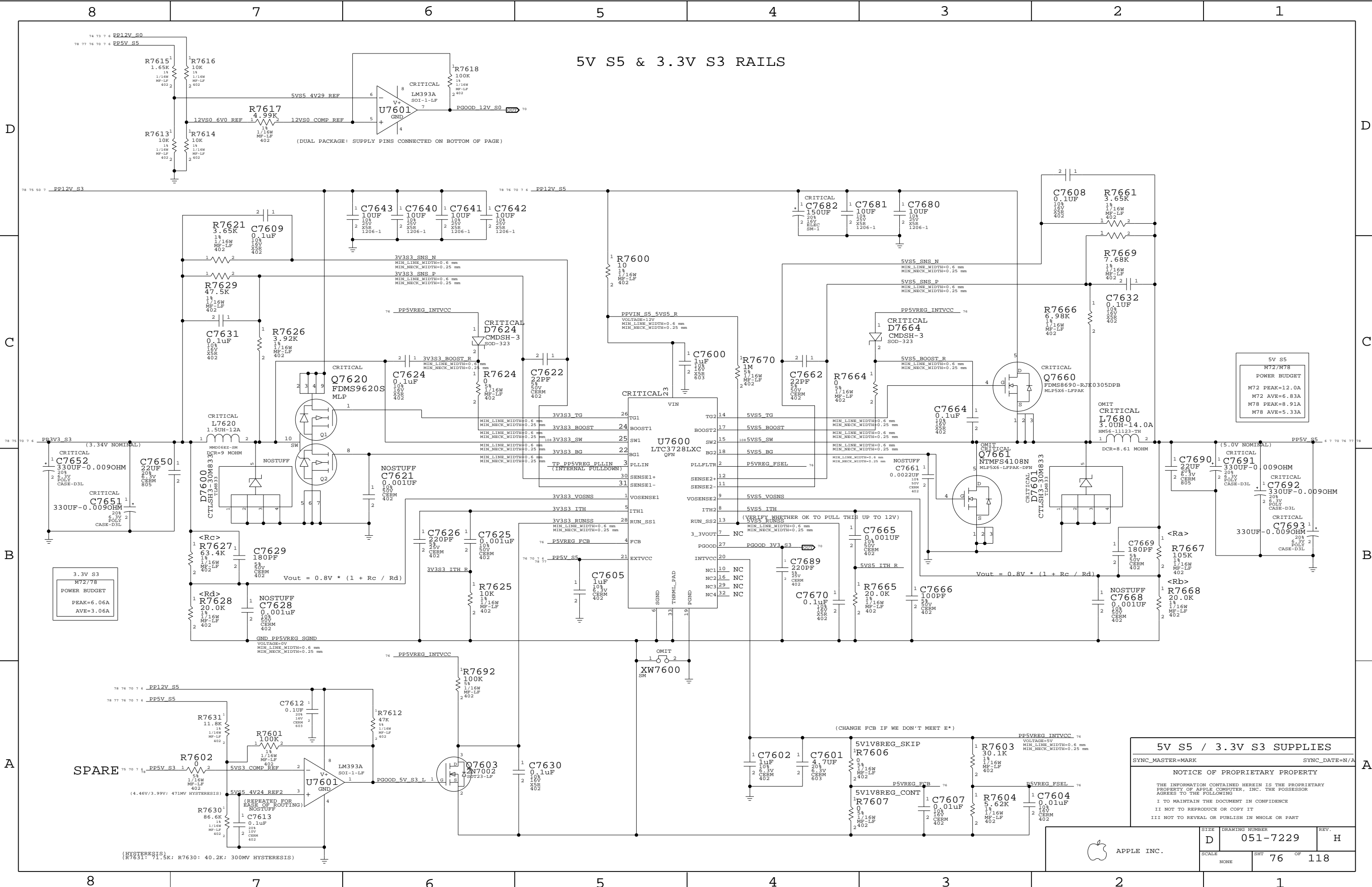
EMC REQUESTED CAPS

| | |
|--|---------------|
| 1.8V S3 /0.9V S0 SUPPLIES | |
| SYNC_MASTER=MARK | SYNC_DATE=N/A |
| NOTICE OF PROPRIETARY PROPERTY | |
| THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING | |
| I TO MAINTAIN THE DOCUMENT IN CONFIDENCE | |
| II NOT TO REPRODUCE OR COPY IT | |
| III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART | |



APPLE INC.

| | | |
|-------|----------------|------|
| SIZE | DRAWING NUMBER | REV. |
| D | 051-7229 | H |
| SCALE | SHT | OF |
| NONE | 75 | 118 |



5V S5 & 3.3V S3 RAILS

5V S5 / 3.3V S3 SUPPLIES

SYNC_MASTER=MARK SYNC_DATE=N/A

NOTICE OF PROPRIETARY PROPERTY

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING

I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

| | | |
|-------|----------------|------|
| SIZE | DRAWING NUMBER | REV. |
| D | 051-7229 | H |
| SCALE | SHT | OF |
| NONE | 76 | 118 |



APPLE INC.

D

C

B

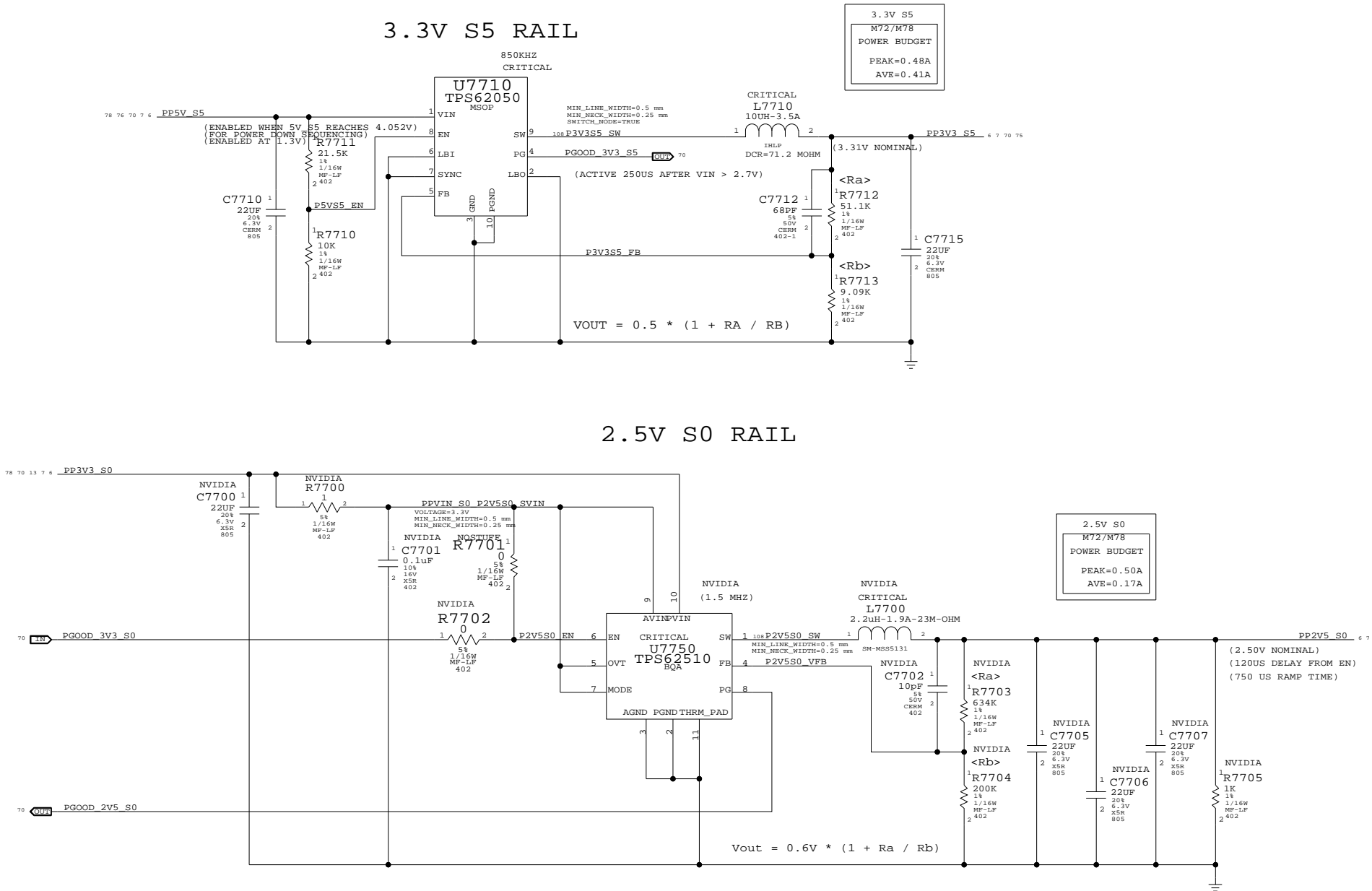
A

D

C

B

A



| State | Manageability | SMC_PM_G2_ENABLE | PM_S4_STATE_L | PM_SLP_S3_L | PM_SLP_S4_L | PM_SLP_M_L |
|---------------------|---------------|------------------|---------------|-------------|-------------|------------|
| Run (S0/M0) | N/A | 1 | 1 | 1 | 1 | 1 |
| Sleep (S3/M1) | On | 1 | 1 | 0 | 1 | 1 |
| Soft-Off (S5/M1) | On | 1 | 0 | 0 | 1 | 1 |
| Sleep (S3/M-Off) | Off | 1 | 1 | 0 | 1 | 0 |
| Soft-Off (S5/M-Off) | Off | 1 | 0 | 0 | 0 | 0 |
| Battery Off (G3Hot) | N/A | 0 | 0 | 0 | 0 | 0 |

3.3V / 2.5V POWER SUPPLIES

SYNC_MASTER=MARK

SYNC_DATE=N/A

NOTICE OF PROPRIETARY PROPERTY

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING

I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART



APPLE INC.

SIZE
D

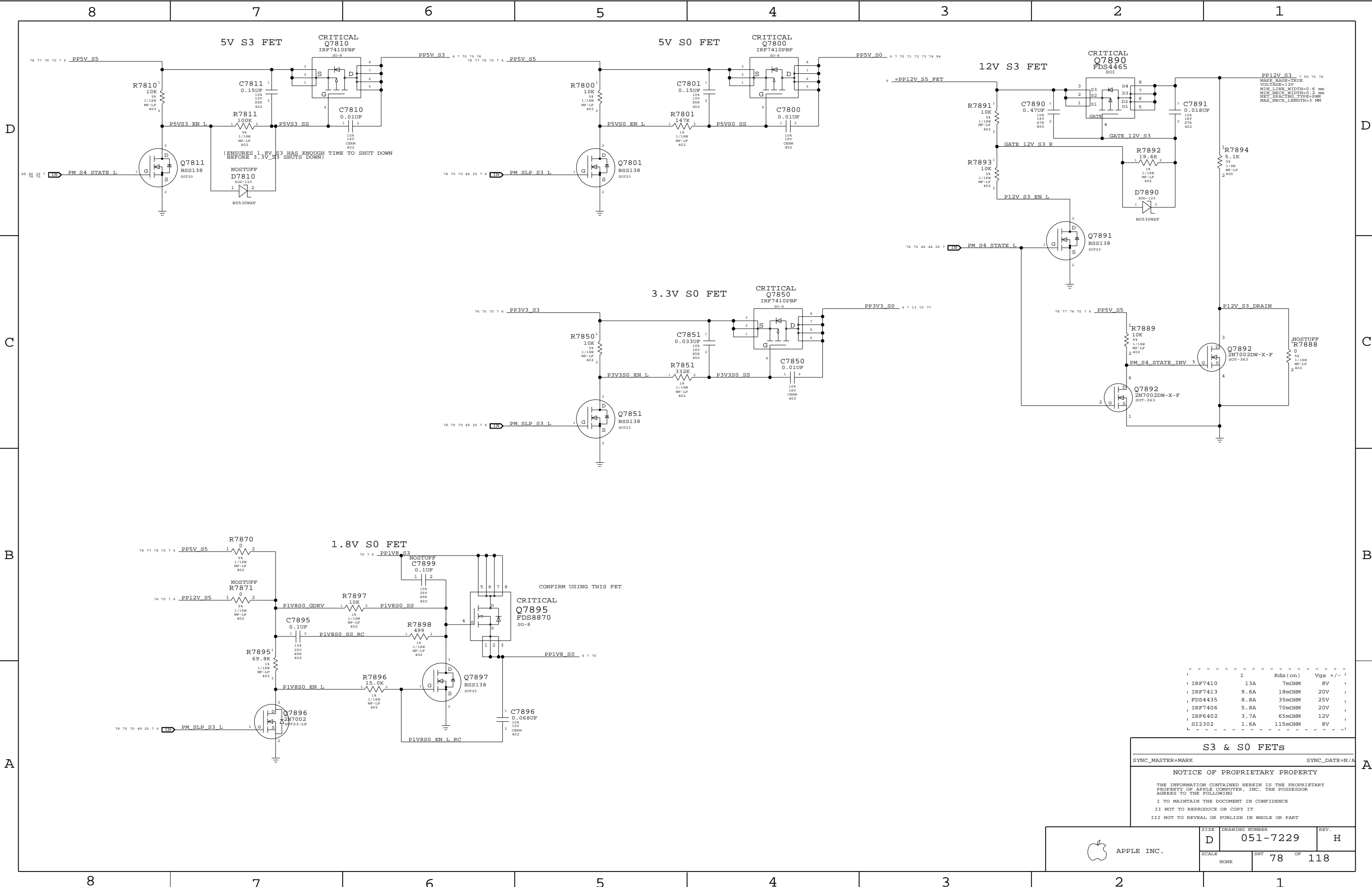
DRAWING NUMBER
051-7229

REV.
H

SCALE
NONE

SHT
77

OF
118



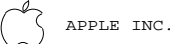
| | I | Rds (on) | Vgs +/- |
|---------|------|----------|---------|
| IRF7410 | 13A | 7mOHM | 8V |
| IRF7413 | 9.6A | 18mOHM | 20V |
| FDS4435 | 8.8A | 35mOHM | 25V |
| IRF7406 | 5.8A | 70mOHM | 20V |
| IRF6402 | 3.7A | 65mOHM | 12V |
| SI2302 | 1.6A | 115mOHM | 8V |

S3 & S0 FETs

SYNC_MASTER=MARK SYNC_DATE=N/A

NOTICE OF PROPRIETARY PROPERTY

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING
I TO MAINTAIN THE DOCUMENT IN CONFIDENCE
II NOT TO REPRODUCE OR COPY IT
III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART



APPLE INC.

| SIZE | DRAWING NUMBER | REV. |
|-------|----------------|------|
| D | 051-7229 | H |
| SCALE | SHT | OF |
| NONE | 78 | 118 |

Power aliases required by this page:

- PP3V3_S0_MXM
- PP2V5_S0_MXM

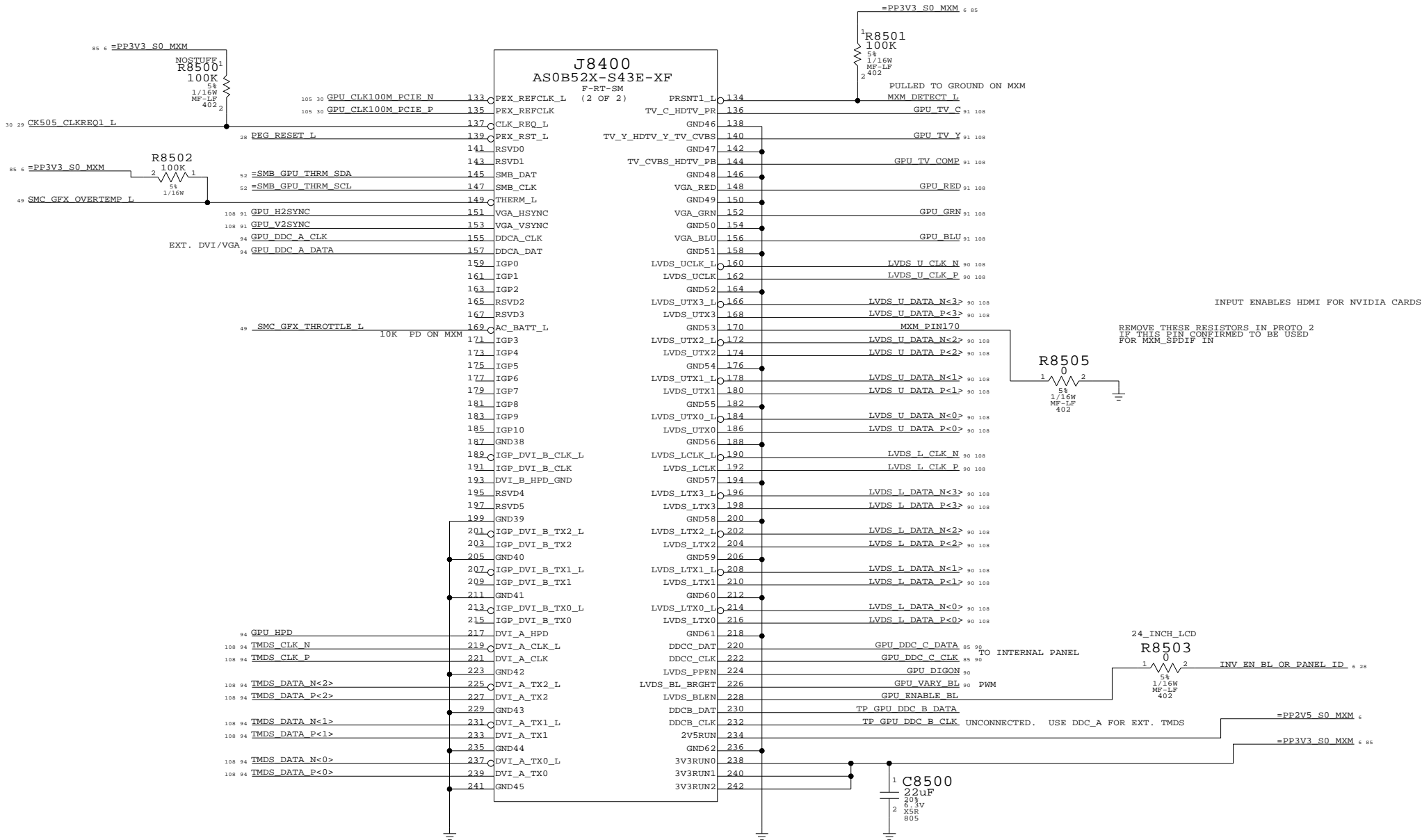
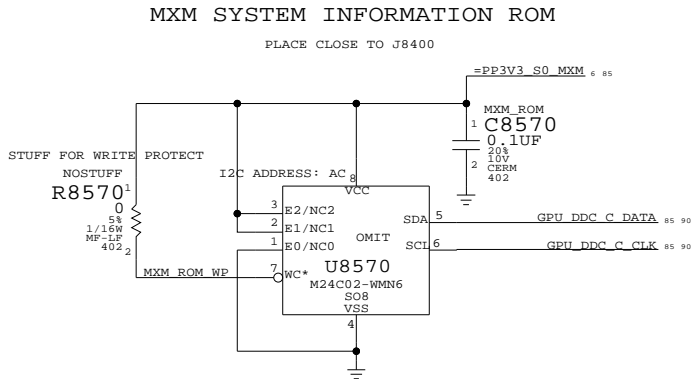
Signal aliases required by this page:

- SMB_GPU_THRM_DATA
- SMB_GPU_THRM_CLK

BOM options provided by this page:

24_INCH_LCD

| MMX SPEC POWER REQUIREMENTS (NOT NECESSARILY THE SAME FOR EVERY MODULE) | | |
|--|-----------|--------------------|
| VOLTAGE | CURRENT | POWER |
| 3V3 | 1.5 A | 4.95 W |
| 5V | 0.5 A | 2.5 W |
| 2V5 | 0.5 A | 1.25 W |
| 1V8 | 3.5 A | 6.3 W |
| PWR (12V) | UP TO 4 A | PLATFORM DEPENDENT |



```

MXM I/O
-----
SYNC_MASTER=M78_MLB                               SYNC_DATE=11/01/2006
-----
NOTICE OF PROPRIETARY PROPERTY

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY
PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR
AGREES TO THE FOLLOWING

    I  TO MAINTAIN THE DOCUMENT IN CONFIDENCE
    II NOT TO REPRODUCE OR COPY IT
    III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

```



APPLE INC.

SIZE
D

051-

H

SCALE

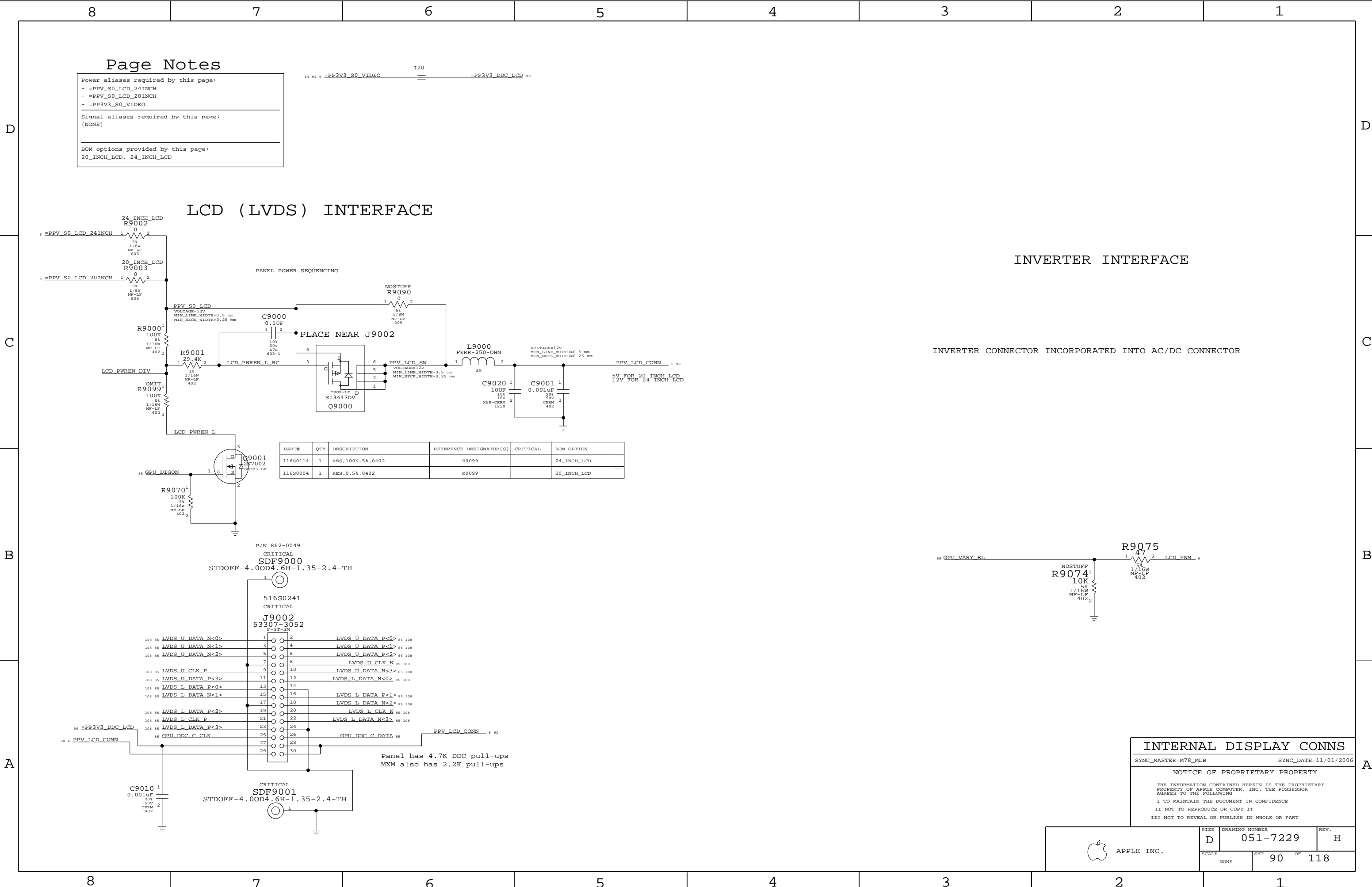
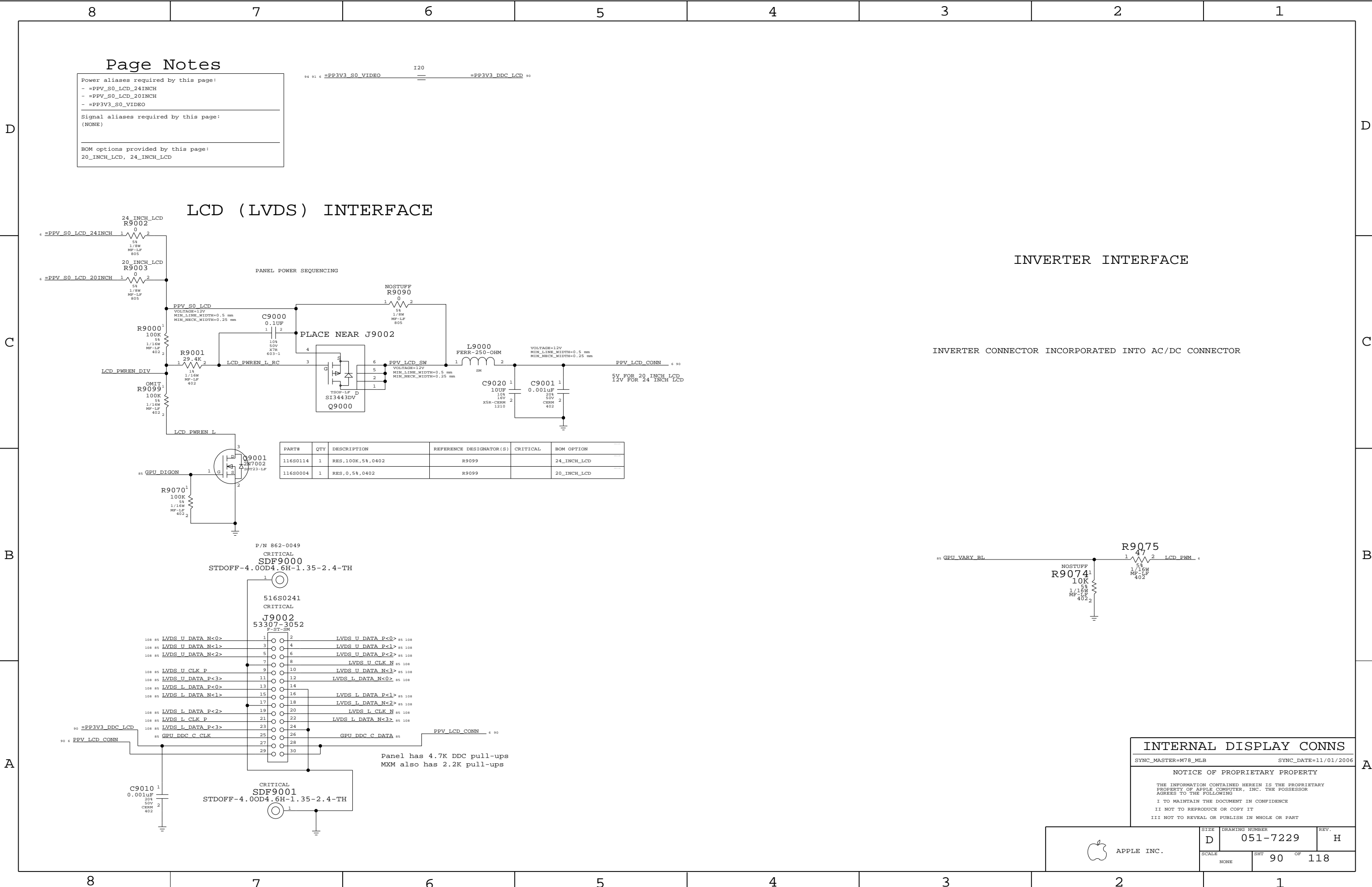
NONE

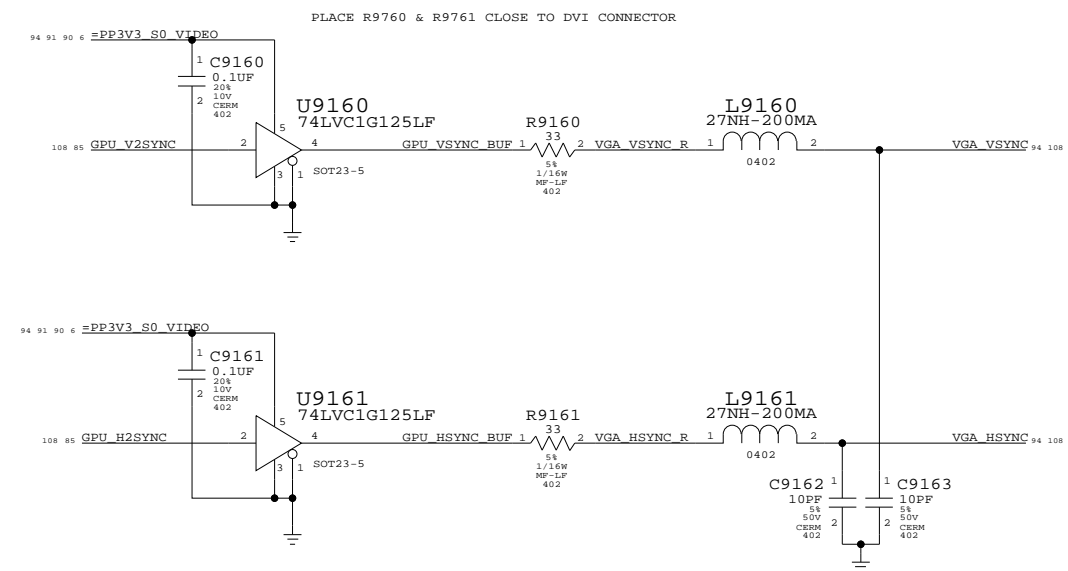
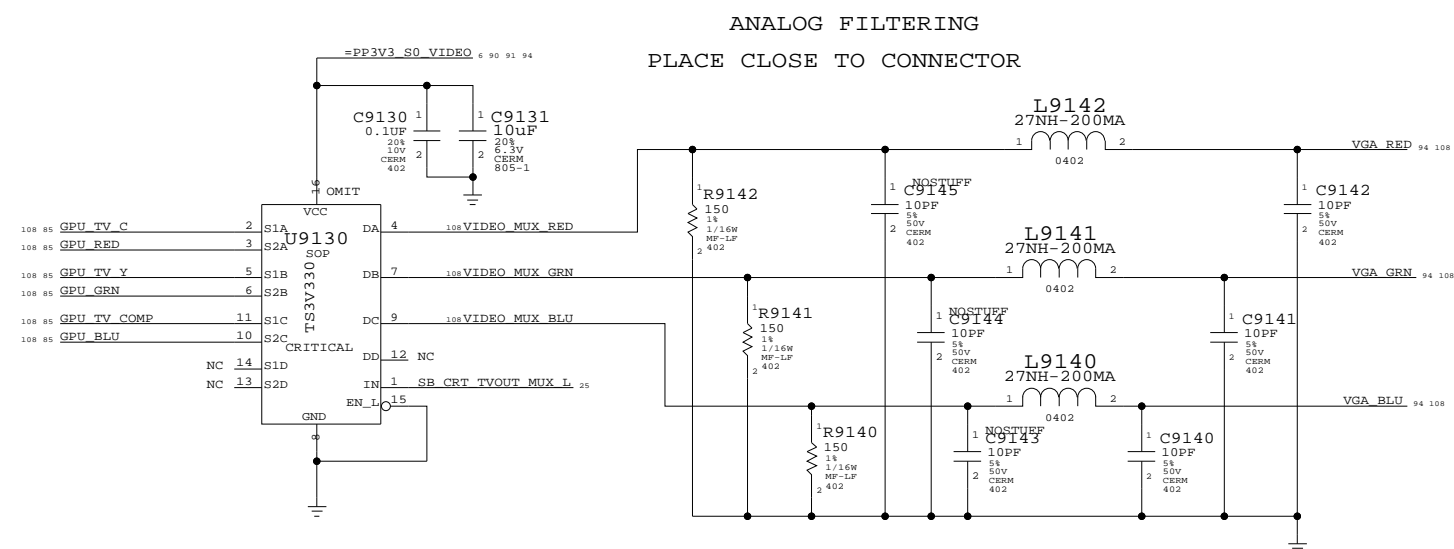
SHT 85

SHT

85

118






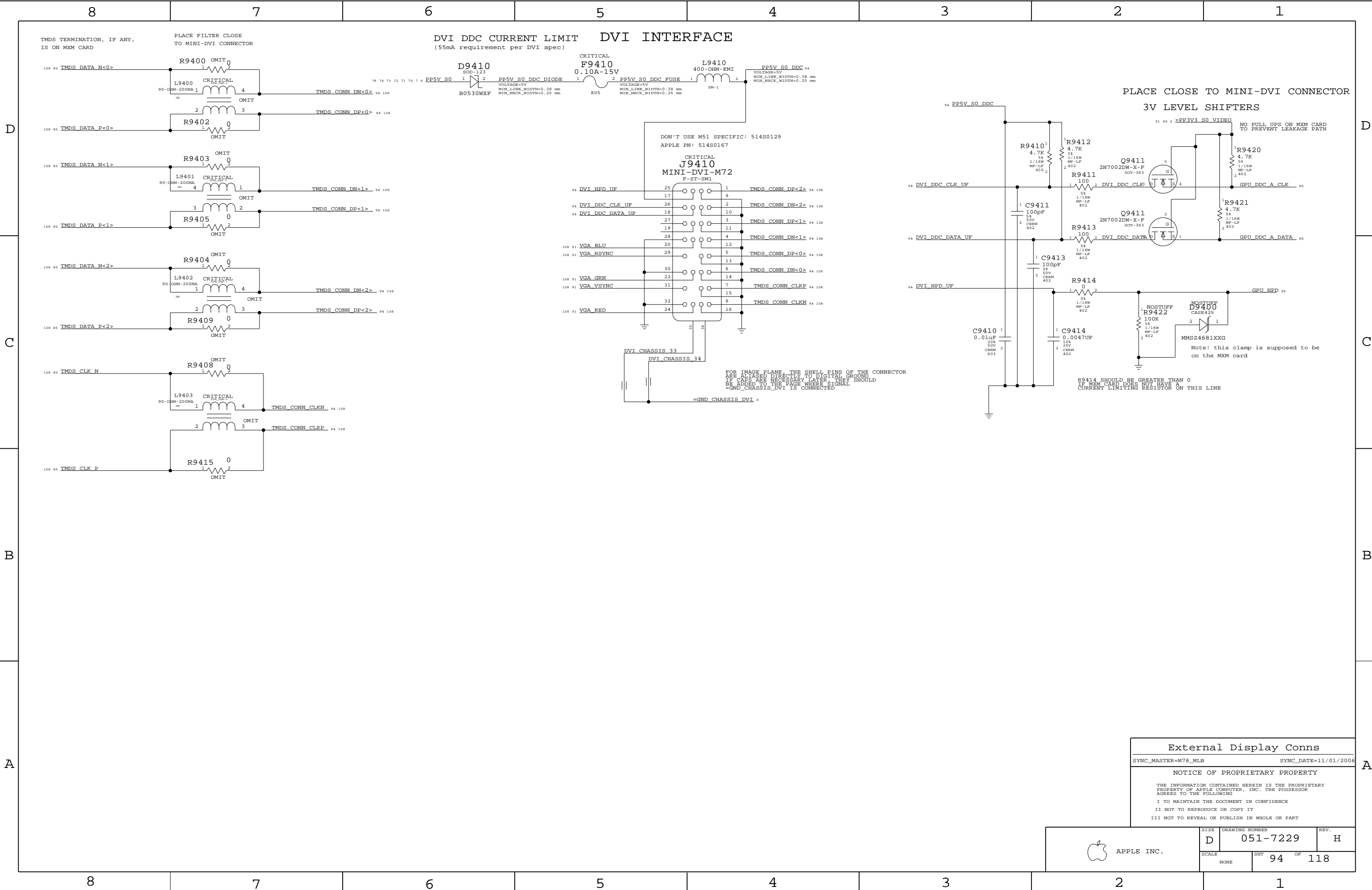
| | |
|---------------|-----|
| VIDEO_MUX_SEL | OUT |
| 1 | CRT |
| 0 | TV |

PLACE U9120 NEAR GMCH

| PART# | QTY | DESCRIPTION | REFERENCE DESIGNATOR(S) | CRITICAL | BOM OPTION |
|----------|-----|---|-------------------------|----------|------------|
| 353S1700 | 1 | QUAD SPOT HIGH-BANDWIDTH VIDEO SWITCH, LOW ON-RES | U9130 | CRITICAL | |

| | |
|--|----------------------|
| Analog Video Support | |
| SYNC_MASTER=M78_MLB | SYNC_DATE=11/01/2006 |
| NOTICE OF PROPRIETARY PROPERTY | |
| THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING | |
| I TO MAINTAIN THE DOCUMENT IN CONFIDENCE | |
| II NOT TO REPRODUCE OR COPY IT | |
| III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART | |

| | | | |
|--|---------------|----------------------------|-----------|
|  APPLE INC. | SIZE D | DRAWING NUMBER 051-7229 | REV. H |
| | SCALE NONE | SHT 91 OF 118 | |



External Display Conns

SYNC_MASTER=M78_MLB SYNC_DATE=11/01/2006

NOTICE OF PROPRIETARY PROPERTY

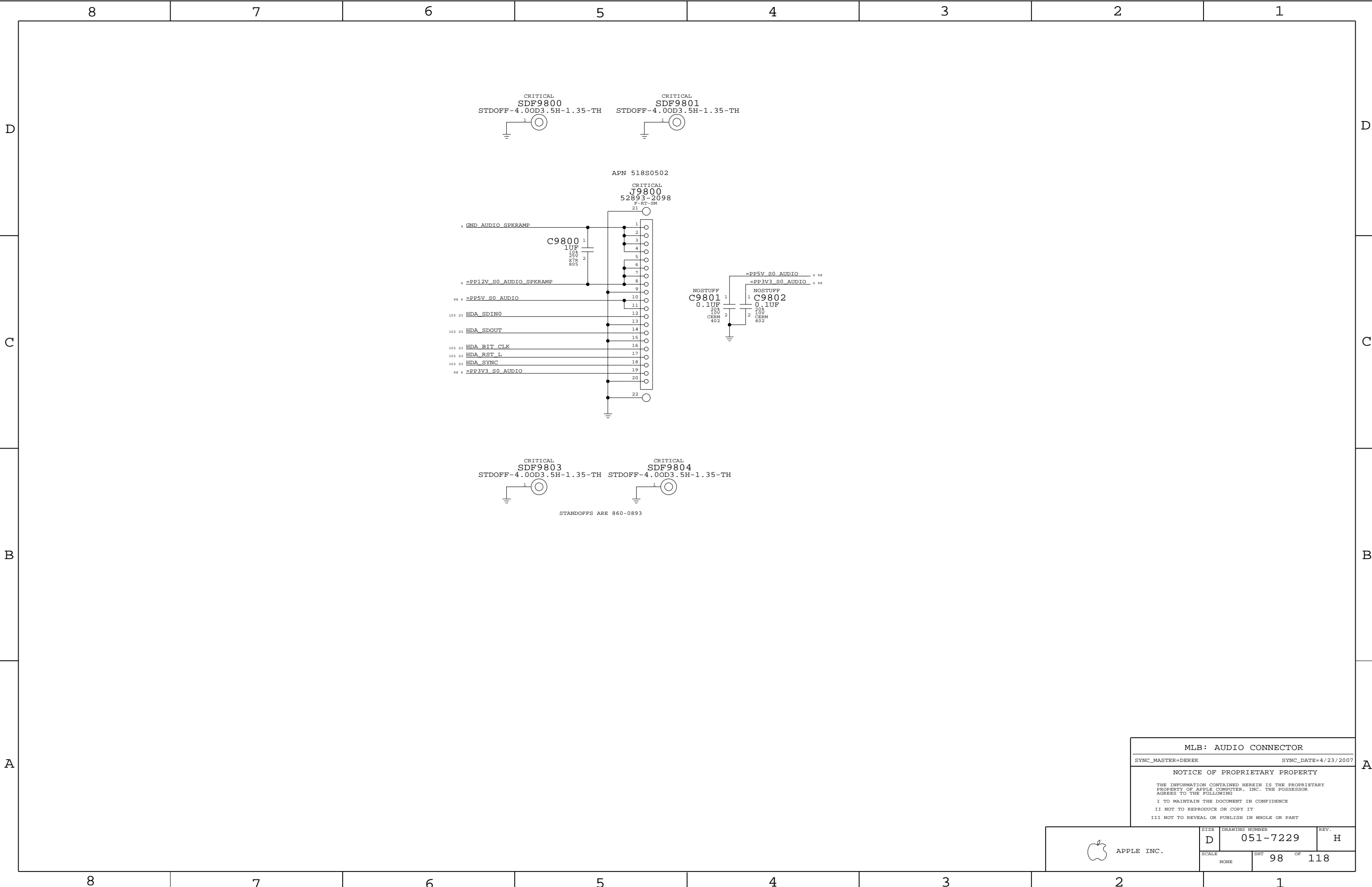
THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING

I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

| | | | | |
|------------|------|----------------|----|--------|
| APPLE INC. | SIZE | DRAWING NUMBER | | REV. |
| | D | 051-7229 | | H |
| SCALE | | SHT | 94 | OF 118 |
| | | NONE | | |



MLB: AUDIO CONNECTOR

SYNC_MASTER=DEREK SYNC_DATE=4/23/2007


NOTICE OF PROPRIETARY PROPERTY

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING

I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

| | | | |
|--|---------------|----------------------------|-----------|
|  APPLE INC. | SIZE D | DRAWING NUMBER 051-7229 | REV. H |
| | SCALE NONE | SHT 98 | OF 118 |

PCI-Express / DMI Bus Constraints

| NET_PHYSICAL_TYPE | AREA_TYPE | PHYSICAL_RULE_SET |
|-------------------|-----------|-------------------|
| PCIE_100D | * | 100_OHM_DIFF |
| DMI_100D | * | 100_OHM_DIFF |

| NET_SPACING_TYPE1 | NET_SPACING_TYPE2 | AREA_TYPE | SPACING_RULE_SET |
|-------------------|-------------------|-----------|------------------|
| PCIE | * | * | SPACING_0.5MM |
| DMI | * | * | SPACING_0.5MM |

SOURCE: Santa Rosa Platform DG, Rev 1.0 (#21112), Sections 7.2, 9.2 & 10.5

Video Signal Constraints

| NET_PHYSICAL_TYPE | AREA_TYPE | PHYSICAL_RULE_SET |
|-------------------|-----------|-------------------|
| LVDS_100D | * | 100_OHM_DIFF |
| CRT_55S | * | 55_OHM_SE |
| CRT_50S | * | 50_OHM_SE |
| TMDS_100D | * | 100_OHM_DIFF |

| NET_SPACING_TYPE1 | NET_SPACING_TYPE2 | AREA_TYPE | SPACING_RULE_SET |
|-------------------|-------------------|-----------|------------------|
| LVDS | * | * | SPACING_0.5MM |
| CRT | * | * | SPACING_0.6MM |
| CRT | CRT | * | SPACING_0.5MM |

DG Says 40 mil spacing minimum

| TVDAC | | | |
|----------|----------|---|---------------|
| CRT_SYNC | * | * | SPACING_0.6MM |
| CRT_SYNC | CRT_SYNC | * | SPACING_0.5MM |
| TMDS | * | * | SPACING_0.5MM |

DG Says 30 mil spacing minimum

DG Says 40 mil spacing minimum

| ELECTRICAL_CONSTRAINT_SET | NET_TYPE | | | |
|---------------------------|-----------|---------|--------------------|---------|
| | PHYSICAL | SPACING | | |
| REQ_R2D | PCIE 105m | PCIE | PEG R2D P<15..0> | 84 |
| | PCIE 105m | PCIE | PEG R2D N<15..0> | 84 |
| | PCIE 105m | PCIE | PEG R2D C P<15..0> | 15 84 |
| | PCIE 105m | PCIE | PEG R2D C N<15..0> | 15 84 |
| REQ_D2R | PCIE 105m | PCIE | PEG D2R P<15..8> | 15 84 |
| | PCIE 105m | PCIE | PEG D2R N<15..8> | 15 84 |
| REQ_D2R_EP | PCIE 105m | PCIE | PEG D2R P<7> | 7 15 84 |
| | PCIE 105m | PCIE | PEG D2R N<7> | 7 15 84 |
| REQ_D2R | PCIE 105m | PCIE | PEG D2R P<6..0> | 15 84 |
| | PCIE 105m | PCIE | PEG D2R N<6..0> | 15 84 |
| | | | | |
| DMI_N2S | DMI 100m | DMI | DMI N2S P<3..1> | 16 24 |
| DMI_N2S_EP | DMI 100m | DMI | DMI N2S P<0> | 7 16 24 |
| | DMI 100m | DMI | DMI N2S N<3..0> | 7 16 24 |
| DMI_S2N | DMI 100m | DMI | DMI S2N P<3..1> | 16 24 |
| DMI_S2N_EP | DMI 100m | DMI | DMI S2N P<0> | 7 16 24 |
| | DMI 100m | DMI | DMI S2N N<3..0> | 7 16 24 |

LVDS signals are 100-ohm +/- 20% differential impedance.
 CRT & TVDAC signal single-ended impedance varies by location:
 - 37.5-ohm +/- 15% from GMCH to first termination resistor.
 - 50-ohm +/- 15% from first to second termination resistor.
 - 55-ohm +/- 15% from second termination resistor to connector.
 CRT_HSYNC/CRT_VSYNC signals are 55-ohm +/- 15% single-ended impedance.

SOURCE: Santa Rosa Platform DG, Rev 1.0 (#21112), Sections 8.1 - 8.3.

NB Constraints

| | |
|--------------------|----------------------|
| SYNC_MASTER=T9_MLB | SYNC_DATE=09/27/2006 |
|--------------------|----------------------|

NOTICE OF PROPRIETARY PROPERTY

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING

I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART



APPLE INC.

| | | |
|---------------|----------------------------|-----------|
| SIZE D | DRAWING NUMBER 051-7229 | REV. H |
| SCALE NONE | SHT 101 | OF 118 |

8

7

6

5

4

3

2

1

DDR2 Memory Bus Constraints

| NET_PHYSICAL_TYPE | AREA_TYPE | PHYSICAL_RULE_SET |
|-------------------|-----------|-------------------|
| MEM_45S | * | 45_OHM_SE |
| MEM_55S | * | 55_OHM_SE |
| MEM_70D | * | 70_OHM_DIFF |
| MEM_85D | * | 85_OHM_DIFF |

Memory Net Properties

| ELECTRICAL_CONSTRAINT_SET | | NET_TYPE | | | |
|---------------------------|----------|----------|------------------|----|----------|
| | PHYSICAL | | SPACING | | |
| MEM A CLK | MEM_70D | MEM_CLK | MEM CLK P<1..0> | 16 | 31 |
| MEM A CMD | MEM_70D | MEM_CLK | MEM CLK N<1..0> | 16 | 31 |
| MEM A CMTL | MEM_45S | MEM_CTRL | MEM CKE<1..0> | 16 | 31 33 |
| MEM A CMTL | MEM_45S | MEM_CTRL | MEM CS L<1..0> | 16 | 31 33 |
| MEM A CMTL | MEM_45S | MEM_CTRL | MEM ODT<1..0> | 16 | 31 33 |
| MEM A CMD | MEM_55S | MEM_CMD | MEM A A<14..0> | 16 | 17 31 33 |
| MEM A CMD | MEM_55S | MEM_CMD | MEM A BS<2..0> | 17 | 31 33 |
| MEM A CMD | MEM_55S | MEM_CMD | MEM A RAS L | 17 | 31 33 |
| MEM A CMD | MEM_55S | MEM_CMD | MEM A CAS L | 17 | 31 33 |
| MEM A CMD | MEM_55S | MEM_CMD | MEM A WE L | 17 | 31 33 |
| MEM A DQ BYTE0 | MEM_55S | MEM_DATA | MEM A DQ<6..0> | 17 | 31 |
| MEM A DQ BYTE0_PP | MEM_55S | MEM_DATA | MEM A DQ<7> | 7 | 17 31 |
| MEM A DQ BYTE1 | MEM_55S | MEM_DATA | MEM A DQ<13..8> | 17 | 31 |
| MEM A DQ BYTE1_PP | MEM_55S | MEM_DATA | MEM A DQ<14> | 7 | 17 31 |
| MEM A DQ BYTE1 | MEM_55S | MEM_DATA | MEM A DQ<15> | 17 | 31 |
| MEM A DQ BYTE2_PP | MEM_55S | MEM_DATA | MEM A DQ<16> | 7 | 17 31 |
| MEM A DQ BYTE2 | MEM_55S | MEM_DATA | MEM A DQ<23..17> | 17 | 31 |
| MEM A DQ BYTE3 | MEM_55S | MEM_DATA | MEM A DQ<24> | 17 | 31 |
| MEM A DQ BYTE3_PP | MEM_55S | MEM_DATA | MEM A DQ<25> | 7 | 17 31 |
| MEM A DQ BYTE3 | MEM_55S | MEM_DATA | MEM A DQ<31..26> | 17 | 31 |
| MEM A DQ BYTE4_PP | MEM_55S | MEM_DATA | MEM A DQ<38..32> | 17 | 31 |
| MEM A DQ BYTE4 | MEM_55S | MEM_DATA | MEM A DQ<39> | 17 | 31 |
| MEM A DQ BYTE5_PP | MEM_55S | MEM_DATA | MEM A DQ<46..40> | 17 | 31 |
| MEM A DQ BYTE5 | MEM_55S | MEM_DATA | MEM A DQ<47> | 17 | 31 |
| MEM A DQ BYTE6_PP | MEM_55S | MEM_DATA | MEM A DQ<53..48> | 17 | 31 |
| MEM A DQ BYTE6 | MEM_55S | MEM_DATA | MEM A DQ<54> | 17 | 31 |
| MEM A DQ BYTE6_PP | MEM_55S | MEM_DATA | MEM A DQ<55> | 17 | 31 |
| MEM A DQ BYTE7 | MEM_55S | MEM_DATA | MEM A DQ<58..56> | 17 | 31 |
| MEM A DQ BYTE7_PP | MEM_55S | MEM_DATA | MEM A DQ<59> | 7 | 17 31 |
| MEM A DQ BYTE7 | MEM_55S | MEM_DATA | MEM A DQ<63..60> | 17 | 31 |
| MEM A DM0 | MEM_55S | MEM_DATA | MEM A DM<0> | 17 | 31 |
| MEM A DM1 | MEM_55S | MEM_DATA | MEM A DM<1> | 17 | 31 |
| MEM A DM2 | MEM_55S | MEM_DATA | MEM A DM<2> | 17 | 31 |
| MEM A DM3 | MEM_55S | MEM_DATA | MEM A DM<3> | 17 | 31 |
| MEM A DM4 | MEM_55S | MEM_DATA | MEM A DM<4> | 17 | 31 |
| MEM A DM5 | MEM_55S | MEM_DATA | MEM A DM<5> | 17 | 31 |
| MEM A DM6 | MEM_55S | MEM_DATA | MEM A DM<6> | 17 | 31 |
| MEM A DM7 | MEM_55S | MEM_DATA | MEM A DM<7> | 17 | 31 |
| MEM A DQS0 | MEM_85D | MEM_DQS | MEM A DQS P<0> | 7 | 17 31 |
| MEM A DQS0 | MEM_85D | MEM_DQS | MEM A DQS N<0> | 7 | 17 31 |
| MEM A DQS1 | MEM_85D | MEM_DQS | MEM A DQS P<1> | 7 | 17 31 |
| MEM A DQS1 | MEM_85D | MEM_DQS | MEM A DQS N<1> | 7 | 17 31 |
| MEM A DQS2 | MEM_85D | MEM_DQS | MEM A DQS P<2> | 7 | 17 31 |
| MEM A DQS2 | MEM_85D | MEM_DQS | MEM A DQS N<2> | 7 | 17 31 |
| MEM A DQS3 | MEM_85D | MEM_DQS | MEM A DQS P<3> | 7 | 17 31 |
| MEM A DQS3 | MEM_85D | MEM_DQS | MEM A DQS N<3> | 7 | 17 31 |
| MEM A DQS4 | MEM_85D | MEM_DQS | MEM A DQS P<4> | 7 | 17 31 |
| MEM A DQS4 | MEM_85D | MEM_DQS | MEM A DQS N<4> | 7 | 17 31 |
| MEM A DQS5 | MEM_85D | MEM_DQS | MEM A DQS P<5> | 7 | 17 31 |
| MEM A DQS5 | MEM_85D | MEM_DQS | MEM A DQS N<5> | 7 | 17 31 |
| MEM A DQS6 | MEM_85D | MEM_DQS | MEM A DQS P<6> | 7 | 17 31 |
| MEM A DQS6 | MEM_85D | MEM_DQS | MEM A DQS N<6> | 7 | 17 31 |
| MEM A DQS7 | MEM_85D | MEM_DQS | MEM A DQS P<7> | 7 | 17 31 |
| MEM A DQS7 | MEM_85D | MEM_DQS | MEM A DQS N<7> | 7 | 17 31 |

Electrical_Constraint_Set

| ELECTRICAL_CONSTRAINT_SET | | NET_TYPE | | | |
|---------------------------|----------|----------|------------------|----|----------|
| | PHYSICAL | | SPACING | | |
| MEM B CLK | MEM_70D | MEM_CLK | MEM CLK P<4..3> | 16 | 32 |
| MEM B CLK | MEM_70D | MEM_CLK | MEM CLK N<4..3> | 16 | 32 |
| MEM B CMTL | MEM_45S | MEM_CTRL | MEM CKE<4..3> | 16 | 32 33 |
| MEM B CMTL | MEM_45S | MEM_CTRL | MEM CS L<3..2> | 16 | 32 33 |
| MEM B CMTL | MEM_45S | MEM_CTRL | MEM ODT<3..2> | 16 | 32 33 |
| MEM B CMD | MEM_55S | MEM_CMD | MEM B A<14..0> | 16 | 17 32 33 |
| MEM B CMD | MEM_55S | MEM_CMD | MEM B BS<2..0> | 17 | 32 33 |
| MEM B CMD | MEM_55S | MEM_CMD | MEM B RAS L | 17 | 32 33 |
| MEM B CMD | MEM_55S | MEM_CMD | MEM B CAS L | 17 | 32 33 |
| MEM B CMD | MEM_55S | MEM_CMD | MEM B WE L | 17 | 32 33 |
| MEM B DQ BYTE0 | MEM_55S | MEM_DATA | MEM B DQ<5..0> | 17 | 32 |
| MEM B DQ BYTE0_PP | MEM_55S | MEM_DATA | MEM B DQ<6> | 7 | 17 32 |
| MEM B DQ BYTE0 | MEM_55S | MEM_DATA | MEM B DQ<7> | 17 | 32 |
| MEM B DQ BYTE1_PP | MEM_55S | MEM_DATA | MEM B DQ<8> | 7 | 17 32 |
| MEM B DQ BYTE1 | MEM_55S | MEM_DATA | MEM B DQ<15..9> | 17 | 32 |
| MEM B DQ BYTE2 | MEM_55S | MEM_DATA | MEM B DQ<22..16> | 17 | 32 |
| MEM B DQ BYTE2_PP | MEM_55S | MEM_DATA | MEM B DQ<23> | 7 | 17 32 |
| MEM B DQ BYTE3 | MEM_55S | MEM_DATA | MEM B DQ<24> | 17 | 32 |
| MEM B DQ BYTE3_PP | MEM_55S | MEM_DATA | MEM B DQ<25> | 7 | 17 32 |
| MEM B DQ BYTE3 | MEM_55S | MEM_DATA | MEM B DQ<31..26> | 17 | 32 |
| MEM B DQ BYTE4 | MEM_55S | MEM_DATA | MEM B DQ<37..32> | 17 | 32 |
| MEM B DQ BYTE4_PP | MEM_55S | MEM_DATA | MEM B DQ<38> | 7 | 17 32 |
| MEM B DQ BYTE4 | MEM_55S | MEM_DATA | MEM B DQ<39> | 17 | 32 |
| MEM B DQ BYTE4_PP | MEM_55S | MEM_DATA | MEM B DQ<43..40> | 17 | 32 |
| MEM B DQ BYTE5_PP | MEM_55S | MEM_DATA | MEM B DQ<44> | 7 | 17 32 |
| MEM B DQ BYTE5 | MEM_55S | MEM_DATA | MEM B DQ<47..45> | 17 | 32 |
| MEM B DQ BYTE6_PP | MEM_55S | MEM_DATA | MEM B DQ<48> | 7 | 17 32 |
| MEM B DQ BYTE6 | MEM_55S | MEM_DATA | MEM B DQ<55..49> | 17 | 32 |
| MEM B DQ BYTE7 | MEM_55S | MEM_DATA | MEM B DQ<61..56> | 17 | 32 |
| MEM B DQ BYTE7_PP | MEM_55S | MEM_DATA | MEM B DQ<62> | 7 | 17 32 |
| MEM B DQ BYTE7 | MEM_55S | MEM_DATA | MEM B DQ<63> | 17 | 32 |
| MEM B DM0 | MEM_55S | MEM_DATA | MEM B DM<0> | 17 | 32 |
| MEM B DM1 | MEM_55S | MEM_DATA | MEM B DM<1> | 17 | 32 |
| MEM B DM2 | MEM_55S | MEM_DATA | MEM B DM<2> | 17 | 32 |
| MEM B DM3 | MEM_55S | MEM_DATA | MEM B DM<3> | 17 | 32 |
| MEM B DM4 | MEM_55S | MEM_DATA | MEM B DM<4> | 17 | 32 |
| MEM B DM5 | MEM_55S | MEM_DATA | MEM B DM<5> | 17 | 32 |
| MEM B DM6 | MEM_55S | MEM_DATA | MEM B DM<6> | 17 | 32 |
| MEM B DM7 | MEM_55S | MEM_DATA | MEM B DM<7> | 17 | 32 |
| MEM B DQS0 | MEM_85D | MEM_DQS | MEM B DQS P<0> | 7 | 17 32 |
| MEM B DQS0 | MEM_85D | MEM_DQS | MEM B DQS N<0> | 7 | 17 32 |
| MEM B DQS1 | MEM_85D | MEM_DQS | MEM B DQS P<1> | 7 | 17 32 |
| MEM B DQS1 | MEM_85D | MEM_DQS | MEM B DQS N<1> | 7 | 17 32 |
| MEM B DQS2 | MEM_85D | MEM_DQS | MEM B DQS P<2> | 7 | 17 32 |
| MEM B DQS2 | MEM_85D | MEM_DQS | MEM B DQS N<2> | 7 | 17 32 |
| MEM B DQS3 | MEM_85D | MEM_DQS | MEM B DQS P<3> | 7 | 17 32 |
| MEM B DQS3 | MEM_85D | MEM_DQS | MEM B DQS N<3> | 7 | 17 32 |
| MEM B DQS4 | MEM_85D | MEM_DQS | MEM B DQS P<4> | 7 | 17 32 |
| MEM B DQS4 | MEM_85D | MEM_DQS | MEM B DQS N<4> | 7 | 17 32 |
| MEM B DQS5 | MEM_85D | MEM_DQS | MEM B DQS P<5> | 7 | 17 32 |
| MEM B DQS5 | MEM_85D | MEM_DQS | MEM B DQS N<5> | 7 | 17 32 |
| MEM B DQS6 | MEM_85D | MEM_DQS | MEM B DQS P<6> | 7 | 17 32 |
| MEM B DQS6 | MEM_85D | MEM_DQS | MEM B DQS N<6> | 7 | 17 32 |
| MEM B DQS7 | MEM_85D | MEM_DQS | MEM B DQS P<7> | 7 | 17 32 |
| MEM B DQS7 | MEM_85D | MEM_DQS | MEM B DQS N<7> | 7 | 17 32 |

8

7

6

5

4

3

2

1

SOURCE: Santa Rosa Platform DG, Rev 1.0 (#21112), Section 6.2

Memory Constraints

SYNC_MASTER=TS_MLB

SYNC_DATE=09/27/2006

NOTICE OF PROPRIETARY PROPERTY

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING

I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

SIZE D

DRAWING NUMBER 051-7229

REV. H

SCALE NONE

SHT 102 OF 118

APPLE INC.

8

7

6

5

4

3

2

1

Disk Interface Constraints

| NET_PHYSICAL_TYPE | AREA_TYPE | PHYSICAL_RULE_SET |
|-------------------|-----------|-------------------|
| IDE_55S | * | 55_OHM_SE |
| SATA_55S | * | 55_OHM_SE |
| SATA_100D | * | 100_OHM_DIFF |

| NET_SPACING_TYPE1 | NET_SPACING_TYPE2 | AREA_TYPE | SPACING_RULE_SET |
|-------------------|-------------------|-----------|------------------|
| IDE | * | * | SPACING_0.18MM |
| SATA | * | * | SPACING_0.5MM |

SOURCE: Santa Rosa Platform DG, Rev 1.0 (#21112), Sections 10.7 & 10.9

HD Audio Interface Constraints

| | | |
|-------------------|-----------|-------------------|
| NET_PHYSICAL_TYPE | AREA_TYPE | PHYSICAL_RULE_SET |
| HDA_55S | * | 55_OHM_SE |

| NET_SPACING_TYPE1 | NET_SPACING_TYPE2 | AREA_TYPE | SPACING_RULE_SET |
|-------------------|-------------------|-----------|------------------|
| HDA | * | * | SPACING_0.18MM |

SOURCE: Napa Platform DG, Rev 0.9 (#17978), Section 10.9.1

USB 2.0 Interface Constraints

| NET_PHYSICAL_TYPE | AREA_TYPE | PHYSICAL_RULE_SET |
|-------------------|-----------|-------------------|
| USB_60S | * | 55_OHM_SE |
| USB_90D | * | 90_OHM_DIFF |

| NET_SPACING_TYPE1 | NET_SPACING_TYPE2 | AREA_TYPE | SPACING_RULE_SET |
|-------------------|-------------------|-----------|------------------|
| USB | * | * | SPACING_0.5MM |

DG SAYS MINIMUM SPACING 50 MILS FROM USB TO CLOCKS

SOURCE: Santa Rosa Platform DG, Rev 1.0 (#21112), Section 10.13.2

Internal Interface Constraints

| NET _{PHYSICAL} _TYPE | AREA_TYPE | PHYSICAL_RULE_SET |
|-------------------------------|-----------|-------------------|
| SMB_55S | * | 55_OHM_SE |
| SPI_55S | * | 55_OHM_SE |

| NET_SPACING_TYPE1 | NET_SPACING_TYPE2 | AREA_TYPE | SPACING_RULE_SET |
|-------------------|-------------------|-----------|------------------|
| SMB | * | * | SPACING_0.3MM |
| SPI | * | * | SPACING_0.18M |

SOURCE: Santa Platform DG, Rev 1.0 (#21112), Section 10.17

| ELECTRICAL_CONSTRAINT_SET | | NRT_TYPE | | | |
|---------------------------|-----------|----------|-------------------|----|-------|
| | | PHYSICAL | SPACING | | |
| IDE_PDD | IDE_55S | IDE | IDE_PDD<15..10> | 23 | 44 |
| IDE_PDD_PP | IDE_55S | IDE | IDE_PDD<9> | 7 | 23 44 |
| IDE_PDD | IDE_55S | IDE | IDE_PDD<8..0> | 23 | 44 |
| IDE_PDA | IDE_55S | IDE | IDE_PDA<2..0> | 23 | 44 |
| IDE_PDCS | IDE_55S | IDE | IDE_PDCS1 L | 23 | 44 |
| IDE_PDCS | IDE_55S | IDE | IDE_PDCS3 L | 23 | 44 |
| IDE_PDIOW | IDE_55S | IDE | IDE_PDIOW L | 23 | 44 |
| IDE_PDIOR_L | IDE_55S | IDE | IDE_PDIOR L | 7 | 23 44 |
| IDE_PDDACK | IDE_55S | IDE | IDE_PDDACK L | 23 | 44 |
| IDE_PDDREQ | IDE_55S | IDE | IDE_PDDREQ | 23 | 44 |
| IDE_PDIORDY | IDE_55S | IDE | IDE_PDIORDY | 7 | 23 44 |
| IDE_IRQ14 | IDE_55S | IDE | IDE_IRQ14 | 23 | 44 |
| ODD_RST_L | IDE_55S | IDE | ODD_RST 5VTOL L | 24 | 44 |
| SATA_A_R2D | SATA_100D | SATA | SATA_A_R2D C P | 23 | 44 |
| SATA_A_R2D | SATA_100D | SATA | SATA_A_R2D C N | 23 | 44 |
| SATA_A_R2D | SATA_100D | SATA | SATA_A_R2D P | 45 | |
| SATA_A_R2D | SATA_100D | SATA | SATA_A_R2D N | 45 | |
| SATA_A_D2R | SATA_100D | SATA | SATA_A_D2R P | 7 | 23 45 |
| SATA_A_D2R | SATA_100D | SATA | SATA_A_D2R N | 7 | 23 45 |
| SATA_A_D2R | SATA_100D | SATA | SATA_A_D2R C P | 45 | |
| SATA_A_D2R | SATA_100D | SATA | SATA_A_D2R C N | 45 | |
| SATA_B_R2D | SATA_100D | SATA | SATA_B_R2D C P | 23 | 45 |
| SATA_B_R2D | SATA_100D | SATA | SATA_B_R2D C N | 23 | 45 |
| SATA_B_D2R | SATA_100D | SATA | SATA_B_D2R P | 23 | 45 |
| SATA_B_D2R | SATA_100D | SATA | SATA_B_D2R N | 23 | 45 |
| SATA_RB1AS | SATA_55S | | SATA RB1AS | 45 | |
| HDA_BIT_CLK | HDA_55S | HDA | HDA_BIT_CLK | 23 | 98 |
| HDA_SYNC | HDA_55S | HDA | HDA_SYNC | 23 | 98 |
| HDA_SYNC | HDA_55S | HDA | HDA_SYNC R | 23 | |
| HDA_RST_L | HDA_55S | HDA | HDA_RST L | 23 | 98 |
| HDA_RST_L | HDA_55S | HDA | HDA_RST L R | 23 | |
| HDA_SDIN0 | HDA_55S | HDA | HDA_SDIN0 | 23 | 98 |
| HDA_SDOUF | HDA_55S | HDA | HDA_SDOUF | 23 | 98 |
| HDA_SDOUF | HDA_55S | HDA | HDA_SDOUF R | 23 | |
| USB_EXT_A | USB_90D | USB | USB_EXT_A P | 24 | 46 |
| USB_EXT_A | USB_90D | USB | USB_EXT_A N | 24 | 46 |
| USB_EXT_A | USB_90D | USB | USB_EXT_A MIXED P | | |
| USB_EXT_A | USB_90D | USB | USB_EXT_A MIXED N | | |
| USB_MINI | USB_90D | USB | USB_MINI P | 24 | 34 |
| USB_MINI | USB_90D | USB | USB_MINI N | 24 | 34 |
| USB_EXTD | USB_90D | USB | USB_EXTD P | 24 | 46 |
| USB_EXTD | USB_90D | USB | USB_EXTD N | 24 | 46 |
| USB_CAMERA | USB_90D | USB | USB_CAMERA P | 7 | 24 47 |
| USB_CAMERA | USB_90D | USB | USB_CAMERA N | 7 | 24 47 |
| USB_BT | USB_90D | USB | USB_BT P | 7 | 24 47 |
| USB_BT | USB_90D | USB | USB_BT N | 7 | 24 47 |
| USB_TPAD | USB_90D | USB | USB_TPAD P | 24 | 47 |
| USB_TPAD | USB_90D | USB | USB_TPAD N | 24 | 47 |
| USB_IR | USB_90D | USB | USB_IR P | 7 | 24 47 |
| USB_IR | USB_90D | USB | USB_IR N | 7 | 24 47 |
| USB_EXTR | USB_90D | USB | USB_EXTR P | 24 | 46 |
| USB_EXTR | USB_90D | USB | USB_EXTR N | 24 | 46 |
| USB_EXCARD | USB_90D | USB | USB_EXCARD P | 24 | 47 |
| USB_EXCARD | USB_90D | USB | USB_EXCARD N | 24 | 47 |
| USB_EXTC | USB_90D | USB | USB_EXTC P | 24 | 46 |
| USB_EXTC | USB_90D | USB | USB_EXTC N | 24 | 46 |
| USB_RB1AS | USB_60S | | USB RB1AS | 24 | |
| SMB_SR_SCL | SMB_55S | SMB | SMB_CLK | 25 | 52 |
| SMB_SR_SDA | SMB_55S | SMB | SMB_DATA | 25 | 52 |
| SMB_SR_ME_SCL | SMB_55S | SMB | SMB_ME_CLK | 25 | 52 |
| SMB_SR_ME_SDA | SMB_55S | SMB | SMB_ME_DATA | 25 | 52 |
| SPI_SCL_K | SPI_55S | SPI | SPI_SCL_K R | 24 | 61 |
| SPI_SCL_K | SPI_55S | SPI | SPI_SCL_K | 7 | 61 |
| SPI_A_SCL_K | SPI_55S | SPI | SPI_A_SCL_K R | | |
| SPI_B_SCL_K | SPI_55S | SPI | SPI_B_SCL_K R | | |
| SPI_SI | SPI_55S | SPI | SPI_SI R | 24 | 61 |
| SPI_SI | SPI_55S | SPI | SPI_SI | | |
| SPI_A_SI | SPI_55S | SPI | SPI_A_SI R | 61 | |
| SPI_B_SI | SPI_55S | SPI | SPI_B_SI R | | |
| SPI_SO | SPI_55S | SPI | SPI_SO | 7 | 24 61 |
| SPI_A_SO | SPI_55S | SPI | SPI_A_SO R | 7 | 61 |
| SPI_B_SO | SPI_55S | SPI | SPI_B_SO | | |
| SPI_CE_R_L<0> | SPI_55S | SPI | SPI_CE_R_L<0> | 24 | 61 |
| SPI_CE_R_L<0> | SPI_55S | SPI | SPI_CE_R_L<0> | 7 | 61 |
| SPI_CE_R_L<1> | SPI_55S | SPI | SPI_CE_R_L<1> | | |
| SPI_CE_L<1> | SPI_55S | SPI | SPI_CE_L<1> | | |

| | |
|--|----------------------|
| SB Constraints (1 of 2) | |
| SYNC_MASTER=T9_MLB | SYNC_DATE=09/27/2006 |
| NOTICE OF PROPRIETARY PROPERTY | |
| THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING | |
| I TO MAINTAIN THE DOCUMENT IN CONFIDENCE | |
| III NOT TO REPRODUCE OR COPY IT | |
| III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART | |



APPLE INC.

| | | |
|---------------|----------------------------|-----------|
| SIZE D | DRAWING NUMBER 051-7229 | REV. H |
| SCALE NONE | SHT 103 | OF 118 |

PCI Bus Constraints

| | | |
|-------------------|-----------|-------------------|
| NET_PHYSICAL_TYPE | AREA_TYPE | PHYSICAL_RULE_SET |
| PCI_55S | * | 55_OHM_SE |

| NET_SPACING_TYPE1 | NET_SPACING_TYPE2 | AREA_TYPE | SPACING_RULE_SET |
|-------------------|-------------------|-----------|------------------|
| PCI | * | * | STANDARD |

CHANGED TO 0.1MM SPACING AS THERE ARE NO PCI DEVICES

SOURCE: Santa Rosa Platform DG, Rev 1.0 (#21112), Sections 10.18.1 & 10.19

Controller Link (AMT) Constraints

| | | |
|-------------------|-----------|-------------------|
| NET_PHYSICAL_TYPE | AREA_TYPE | PHYSICAL_RULE_SET |
| CLINK_55S | * | 55_OHM_SE |

| NET_SPACING_TYPE1 | NET_SPACING_TYPE2 | AREA_TYPE | SPACING_RULE_SET |
|-------------------|-------------------|-----------|------------------|
| CLINK | * | * | SPACING_0.18MM |

| | | | |
|------------|---|---|---------------|
| CLINK_VREF | * | * | SPACING_0.3MM |
|------------|---|---|---------------|

| PHYSICAL_RULE_SET | LAYER | ALLOW ROUTE ON LAYER? | MINIMUM LINE WIDTH | MINIMUM NECK WIDTH | MAXIMUM NECK LENGTH | DIFFPAIR PRIMARY GAP | DIFFPAIR NECK GAP |
|-------------------|-------|-----------------------|--------------------|--------------------|---------------------|----------------------|-------------------|
| CLINK_12MIL | * | =STANDARD | 0.3 MM | 0.125 MM | 7.5 MM | =STANDARD | =STANDARD |

SOURCE: Santa Rosa Platform DG, Rev 1.0 (#21112), Sections 10.27.1.5-7, 10.29 & 10.30

Ethernet (Yukon) Constraints

| | | |
|-------------------|-----------|-------------------|
| NET_PHYSICAL_TYPE | AREA_TYPE | PHYSICAL_RULE_SET |
| ENET_100D | * | 100_OHM_DIFF |

| NET_SPACING_TYPE1 | NET_SPACING_TYPE2 | AREA_TYPE | SPACING_RULE_SET |
|-------------------|-------------------|-----------|------------------|
| ENET_MDI | * | * | SPACING_0.5MM |

| | | | |
|----------|---------------|---|---------------|
| ENET_MDI | ENET_MDI_TERM | * | SPACING_0.2MM |
|----------|---------------|---|---------------|

SOURCE: Based on Santa Rosa Platform DG, Rev 1.0 (#21112), Sections 10.27.1.5-7, 10.29 & 10.30

| ELECTRICAL_CONSTRAINT_SET | | NET_TYPE | | |
|---------------------------|------------------|-------------|---------------|-------------------------|
| | | PHYSICAL | SPACING | |
| | | PCI_56R | PCI | PCI_AD<18..0> |
| | | PCI_56R | PCI | PCI_AD<19> |
| | | PCI_56R | PCI | PCI_AD<20> |
| | | PCI_56R | PCI | PCI_AD<31..21> |
| | | PCI_56R | PCI | PCI_PAR |
| | | PCI_56R | PCI | PCI_C_BE_L<3..0> |
| | | PCI_56R | PCI | PCI_IRDY_L |
| | | PCI_56R | PCI | PCI_DEVSEL_L |
| | | PCI_56R | PCI | PCI_PERR_L |
| | | PCI_56R | PCI | PCI_LOCK_L |
| | | PCI_56R | PCI | PCI_SERR_L |
| | | PCI_56R | PCI | PCI_STOP_L |
| | | PCI_56R | PCI | PCI_TRDY_L |
| | | PCI_56R | PCI | PCI_FRAME_L |
| | | PCI_56R | PCI | PCI_FW_REQ_L |
| | | PCI_56R | PCI | PCI_FW_GNT_L |
| | | PCI_56R | PCI | PCI_REQ1_L |
| | | PCI_56R | PCI | PCI_GNT1_L |
| | | PCI_56R | PCI | PCI_REQ2_L |
| | | PCI_56R | PCI | PCI_GNT2_L |
| | INT_PIRQA_L | PCI_56R | PCI | INT_PIRQA_L |
| | INT_PIRQB_L | PCI_56R | PCI | INT_PIRQB_L |
| | INT_PIROC_L | PCI_56R | PCI | INT_PIROC_L |
| | INT_PIROD_L | PCI_56R | PCI | INT_PIROD_L |
| | INT_PIROE_L | PCI_56R | PCI | INT_PIROE_L |
| | INT_PIROF_L | PCI_56R | PCI | INT_PIROF_L |
| | PCIE_A_R2D | PCIE_100D | PCIE | PCIE_MINI_R2D_C_P |
| | | PCIE_100D | PCIE | PCIE_MINI_R2D_C_N |
| | PCIE_A_D2R | PCIE_100D | PCIE | PCIE_MINI_D2R_P |
| | | PCIE_100D | PCIE | PCIE_MINI_D2R_N |
| | PCIE_B_R2D | PCIE_100D | PCIE | PCIE_ENET_R2D_C_P |
| | | PCIE_100D | PCIE | PCIE_ENET_R2D_C_N |
| | PCIE_B_D2R | PCIE_100D | PCIE | PCIE_ENET_D2R_P |
| | | PCIE_100D | PCIE | PCIE_ENET_D2R_N |
| | PCIE_C_R2D | PCIE_100D | PCIE | PCIE_FW_R2D_C_P |
| | | PCIE_100D | PCIE | PCIE_FW_R2D_C_N |
| | PCIE_C_D2R | PCIE_100D | PCIE | PCIE_FW_D2R_P |
| | | PCIE_100D | PCIE | PCIE_FW_D2R_N |
| | GLAN_COMP | | | GLAN_COMP |
| | CLINK_NB | CLINK_56R | CLINK | CLINK_NB_CLK |
| | CLINK_NB | CLINK_56R | CLINK | CLINK_NB_DATA |
| | CLINK_NB_RESET_L | CLINK_56R | CLINK | CLINK_NB_RESET_L |
| | NB_CLINK_VREF | CLINK_12MIL | CLINK_VREF | NB_CLINK_VREF |
| | SB_CLINK_VREF0 | CLINK_12MIL | CLINK_VREF | SB_CLINK_VREF0 |
| | SB_CLINK_VREF1 | CLINK_12MIL | CLINK_VREF | SB_CLINK_VREF1 |
| | | | PWR | PPIV9R2V5_ENET_PHY_AVDD |
| | | | PWR | PPIV9R2V5_S3_ENET_R |
| | | | ENET_MDI_TERM | ENET_MDI0 |
| | | | ENET_MDI_TERM | ENET_MDI1 |
| | | | ENET_MDI_TERM | ENET_MDI2 |
| | | | ENET_MDI_TERM | ENET_MDI3 |
| | ENET_MDI0 | ENET_100D | ENET_MDI | ENET_MDI_P<0> |
| | | ENET_100D | ENET_MDI | ENET_MDI_N<0> |
| | ENET_MDI1 | ENET_100D | ENET_MDI | ENET_MDI_P<1> |
| | | ENET_100D | ENET_MDI | ENET_MDI_N<1> |
| | ENET_MDI2 | ENET_100D | ENET_MDI | ENET_MDI_P<2> |
| | | ENET_100D | ENET_MDI | ENET_MDI_N<2> |
| | ENET_MDI3 | ENET_100D | ENET_MDI | ENET_MDI_P<3> |
| | | ENET_100D | ENET_MDI | ENET_MDI_N<3> |

SB Constraints (2 of 2)

```
SYNC_MASTER=(MASTER)
```

| | |
|------------------------|---|
| SYNC_DATE=(10/02/2006) | 7 |
|------------------------|---|

NOTICE OF PROPRIETARY PROPERTY

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY
PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR
AGREES TO THE FOLLOWING

I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

| | |
|------|----------------|
| SIZE | DRAWING NUMBER |
|------|----------------|



APPLE INC.

| |
|------|
| SIZE |
| D |

| | |
|------|----------------|
| SIZE | DRAWING NUMBER |
| D | 051-7229 |

H

| | |
|-------|--|
| SCALE | |
| NONE | |

SHT 104 OF 118

Clock Signal Constraints

| NET_PHYSICAL_TYPE | AREA_TYPE | PHYSICAL_RULE_SET |
|-------------------|-----------|-------------------|
| CLK_FSB_100D | * | 100_OHM_DIFF |
| CLK_PCIE_100D | * | 100_OHM_DIFF |
| CLK_MED_55S | * | 55_OHM_SE |

Clock Net Properties

| ELECTRICAL_CONSTRAINT_SET | NET_TYPE | | | |
|---------------------------|---------------|----------|--------------------------------|-----------|
| | PHYSICAL | SPACING | | |
| CK505_CPU0 | CLK_FSB_100D | CLK_FSB | CK505_CPU0_P | 29 30 |
| CK505_CPU0 | CLK_FSB_100D | CLK_FSB | CK505_CPU0_N | 29 30 |
| CK505_NB | CLK_FSB_100D | CLK_FSB | CK505_CPU1_P | 29 30 |
| CK505_NB | CLK_FSB_100D | CLK_FSB | CK505_CPU1_N | 29 30 |
| CK505_1TP | CLK_FSB_100D | CLK_FSB | CK505_CPU2_1TP_SRC10_P | 29 30 |
| CK505_1TP | CLK_FSB_100D | CLK_FSB | CK505_CPU2_1TP_SRC10_N | 29 30 |
| CK505_PCT0EN | CLK_MED_55S | CLK_MED | CK505_PCT0_CLK_1TPEN | 29 30 |
| CK505_PCT0F1 | CLK_MED_55S | CLK_MED | CK505_PCT0F1_CLK | 29 30 |
| | CLK_MED_55S | CLK_MED | CK505_PCT1_CLK | 29 30 |
| | CLK_MED_55S | CLK_MED | CK505_PCT2_CLK | 29 30 |
| CK505_PCT3 | CLK_MED_55S | CLK_MED | CK505_PCT3_CLK | 29 30 |
| | CLK_MED_55S | CLK_MED | CK505_PCT4_CLK | 29 30 |
| CK505_PCT5 | CLK_MED_55S | CLK_MED | CK505_PCT5_CLK_PCTSEL | 29 30 |
| (CPU_BSEL0) | CLK_MED_55S | CLK_MED | CK505_48M_FSA | 29 30 |
| (CPU_BSEL2) | CLK_MED_55S | CLK_MED | CK505_REF0_FSC | 29 30 |
| | CLK_PCIE_100D | CLK_PCIE | CK505_DOT96_27M_P | 29 30 |
| | CLK_PCIE_100D | CLK_PCIE | CK505_DOT96_27M_N | 29 30 |
| | CLK_PCIE_100D | CLK_PCIE | CK505_LVDS_P | 29 30 |
| | CLK_PCIE_100D | CLK_PCIE | CK505_LVDS_N | 29 30 |
| CK505_SRC1 | CLK_PCIE_100D | CLK_PCIE | CK505_SRC1_P | 29 30 |
| | CLK_PCIE_100D | CLK_PCIE | CK505_SRC1_N | 29 30 |
| CK505_SRC2 | CLK_PCIE_100D | CLK_PCIE | CK505_SRC2_P | 29 30 |
| | CLK_PCIE_100D | CLK_PCIE | CK505_SRC2_N | 29 30 |
| CK505_SRC3 | CLK_PCIE_100D | CLK_PCIE | CK505_SRC3_P | 29 30 |
| | CLK_PCIE_100D | CLK_PCIE | CK505_SRC3_N | 29 30 |
| CK505_SRC4 | CLK_PCIE_100D | CLK_PCIE | CK505_SRC4_P | 29 30 |
| | CLK_PCIE_100D | CLK_PCIE | CK505_SRC4_N | 29 30 |
| CK505_SRC5 | CLK_PCIE_100D | CLK_PCIE | CK505_SRC5_P | 29 30 |
| | CLK_PCIE_100D | CLK_PCIE | CK505_SRC5_N | 29 30 |
| CK505_SRC6 | CLK_PCIE_100D | CLK_PCIE | CK505_SRC6_P | 29 30 |
| | CLK_PCIE_100D | CLK_PCIE | CK505_SRC6_N | 29 30 |
| CK505_SRC7 | CLK_PCIE_100D | CLK_PCIE | CK505_SRC7_P | 29 30 |
| | CLK_PCIE_100D | CLK_PCIE | CK505_SRC7_N | 29 30 |
| CK505_SRC8 | CLK_PCIE_100D | CLK_PCIE | CK505_SRC8_P | 29 30 |
| | CLK_PCIE_100D | CLK_PCIE | CK505_SRC8_N | 29 30 |
| (CK505_CPU1) | CLK_FSB_100D | CLK_FSB | FSB_CLK_CPU1_P | 7 10 30 |
| (CK505_CPU1) | CLK_FSB_100D | CLK_FSB | FSB_CLK_CPU1_N | 7 10 30 |
| (CK505_NB) | CLK_FSB_100D | CLK_FSB | FSB_CLK_NB_P | 7 14 30 |
| (CK505_NB) | CLK_FSB_100D | CLK_FSB | FSB_CLK_NB_N | 7 14 30 |
| (CK505_1TP) | CLK_FSB_100D | CLK_FSB | XDP_CLK_P | 13 30 100 |
| (CK505_1TP) | CLK_FSB_100D | CLK_FSB | XDP_CLK_N | 13 30 100 |
| (CK505_PCT0F0) | CLK_MED_55S | CLK_MED | PCI_CLK33M_LPCPLUS | 7 30 51 |
| (CK505_PCT0F1) | CLK_MED_55S | CLK_MED | PCI_CLK33M_SB | 7 24 30 |
| (CK505_PCT2) | CLK_MED_55S | CLK_MED | PCI_CLK33M_TPM | |
| (CK505_PCT3) | CLK_MED_55S | CLK_MED | PCI_CLK33M_SMC | 7 30 41 |
| | | | CK505_PCT4 is project-specific | |
| | | | CK505_PCT5 is project-specific | |
| (CPU_BSEL0) | CLK_MED_55S | CLK_MED | SB_CLK48M_USBC1CTR | 7 25 30 |
| (CPU_BSEL2) | CLK_MED_55S | CLK_MED | SB_CLK14P3M_TIMER | 7 25 30 |
| (CPU_BSEL0) | CLK_MED_55S | CLK_MED | CK505_FSA | 30 |
| (CPU_BSEL2) | CLK_MED_55S | CLK_MED | CK505_FSC | 30 |
| (CK505_SRC1) | CLK_PCIE_100D | CLK_PCIE | GPU_CLK100M_PCIE_P | 30 85 |
| (CK505_SRC1) | CLK_PCIE_100D | CLK_PCIE | GPU_CLK100M_PCIE_N | 30 85 |
| (CK505_SRC2) | CLK_PCIE_100D | CLK_PCIE | SB_CLK100M_DMI_P | 7 24 30 |
| (CK505_SRC2) | CLK_PCIE_100D | CLK_PCIE | SB_CLK100M_DMI_N | 7 24 30 |
| (CK505_SRC3) | CLK_PCIE_100D | CLK_PCIE | PCIE_CLK100M_FW_P | 7 30 40 |
| (CK505_SRC3) | CLK_PCIE_100D | CLK_PCIE | PCIE_CLK100M_FW_N | 7 30 40 |
| (CK505_SRC4) | CLK_PCIE_100D | CLK_PCIE | SB_CLK100M_SATA_P | 7 23 30 |
| (CK505_SRC4) | CLK_PCIE_100D | CLK_PCIE | SB_CLK100M_SATA_N | 7 23 30 |
| (CK505_SRC5) | CLK_PCIE_100D | CLK_PCIE | NB_CLK100M_PCIE_P | 7 16 30 |
| (CK505_SRC5) | CLK_PCIE_100D | CLK_PCIE | NB_CLK100M_PCIE_N | 7 16 30 |
| (CK505_SRC6) | CLK_PCIE_100D | CLK_PCIE | PCIE_CLK100M_MINI_P | 30 34 |
| (CK505_SRC6) | CLK_PCIE_100D | CLK_PCIE | PCIE_CLK100M_MINI_N | 30 34 |
| (CK505_SRC8) | CLK_PCIE_100D | CLK_PCIE | PCIE_CLK100M_ENET_P | 7 30 37 |
| (CK505_SRC8) | CLK_PCIE_100D | CLK_PCIE | PCIE_CLK100M_ENET_N | 7 30 37 |

SOURCE: Santa Rosa Platform DG, Rev 1.0 (#21112), Sections 14.1 - 14.6

Clock Constraints

SYNC_MASTER=T9_MLB

SYNC_DATE=09/27/2006

NOTICE OF PROPRIETARY PROPERTY

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY
PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR
AGREES TO THE FOLLOWING

I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

| | | |
|--|------|----------------|
| | SIZE | DRAWING NUMBER |
|--|------|----------------|



APPLE INC.

| |
|------|
| SIZE |
| D |

| | |
|------|----------------|
| SIZE | DRAWING NUMBER |
| D | 051-7229 |

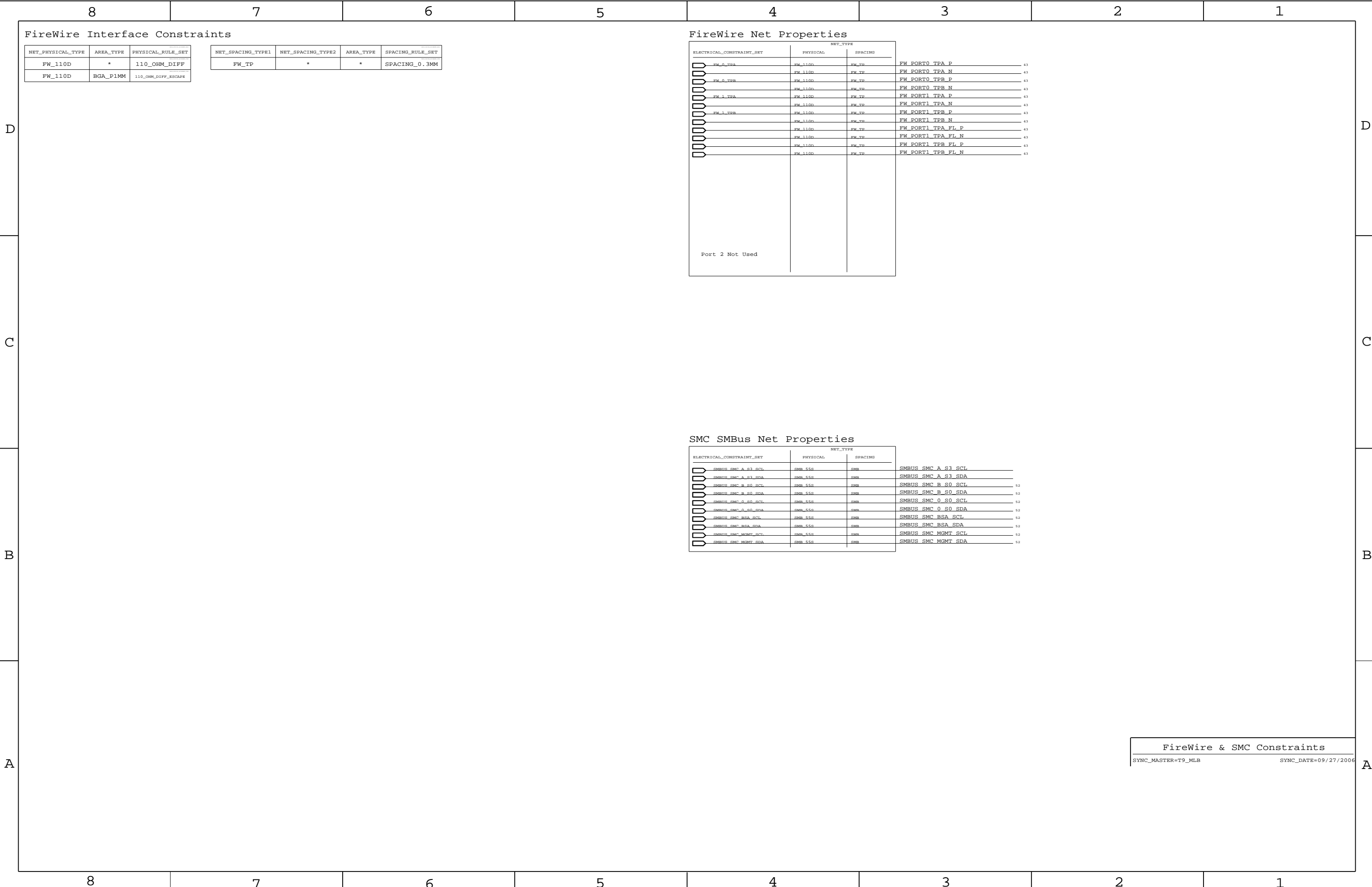
H

| | |
|-------|--|
| | |
| SCALE | |

| | | | | |
|------|-----|-----|----|-----|
| LE | SHT | 105 | OF | 118 |
| NONE | | | | |

NONE

SHT 105 OF 118



D

C

B

A

D

C

B

A

| SPACING_RULE_SET | LAYER | LINE-TO-LINE SPACING | WEIGHT |
|------------------|-------|----------------------|--------|
| GND | * | =STANDARD | 900 |
| PWR | * | =STANDARD | 900 |

| 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 |
|-------------------|-------------------|-----------|------------------|
| MEM_CLK | GND | * | GND_P2MM |
| MEM_CMD | GND | * | GND_P2MM |
| MEM_CTRL | GND | * | GND_P2MM |
| MEM_DATA | GND | * | GND_P2MM |
| MEM_DQS | GND | * | GND_P2MM |
| MEM_CLK | PWR | * | PWR_P2MM |
| MEM_CMD | PWR | * | PWR_P2MM |
| MEM_CTRL | PWR | * | PWR_P2MM |
| MEM_DATA | PWR | * | PWR_P2MM |
| MEM_DQS | PWR | * | PWR_P2MM |

| NET_SPACING_TYPE1 | NET_SPACING_TYPE2 | AREA_TYPE | SPACING_RULE_SET |
|-------------------|-------------------|-----------|------------------|
| CLK_VREF | GND | * | GND_P2MM |
| CLK_MED | GND | * | GND_P2MM |
| CLK_PCIE | GND | * | GND_P2MM |
| DMI | GND | * | GND_P2MM |

| NET_SPACING_TYPE1 | NET_SPACING_TYPE2 | AREA_TYPE | SPACING_RULE_SET |
|-------------------|-------------------|-----------|------------------|
| PCIe | GND | * | GND_P2MM |
| SATA | GND | * | GND_P2MM |
| USB | GND | * | GND_P2MM |
| CLK_PCIE | PWR | * | PWR_P2MM |
| DMI | PWR | * | PWR_P2MM |
| SATA | PWR | * | PWR_P2MM |
| USB | PWR | * | PWR_P2MM |

| NET_SPACING_TYPE1 | NET_SPACING_TYPE2 | AREA_TYPE | SPACING_RULE_SET |
|-------------------|-------------------|-----------|------------------|
| LVDS | GND | * | GND_P2MM |

| NET_SPACING_TYPE1 | NET_SPACING_TYPE2 | AREA_TYPE | SPACING_RULE_SET |
|-------------------|-------------------|-----------|------------------|
| CLK_PCIE | PWR | * | PWR_P2MM |

| NET_PHYSICAL_TYPE | AREA_TYPE | PHYSICAL_RULE_SET |
|-------------------|-----------|-------------------|
| THERM_DIFF | * | 1:1_DIFFPAIR |

| NET_SPACING_TYPE1 | NET_SPACING_TYPE2 | AREA_TYPE | SPACING_RULE_SET |
|-------------------|-------------------|-----------|------------------|
| THERMAL | * | * | SPACING_0.4MM |
| SWITCHNODE | * | * | SWITCHNODE |
| THERMAL | PWR | * | PWR_P2MM |
| THERMAL | GND | * | GND_P2MM |
| SMS | * | * | SPACING_0.3MM |

M72/M78 SPECIFIC NET PROPERTIES

| ELECTRICAL_CONSTRAINT_SET | NET_TYPE | | | | |
|---------------------------|------------|----------|---------------------|----|----|
| | PHYSICAL | SPACING | | | |
| TMDS_DATA | TMDS_100n | TMDS | TMDS DATA P<3..0> | 85 | 94 |
| TMDS_100n | TMDS_100n | TMDS | TMDS DATA N<3..0> | 85 | 94 |
| TMDS_CLK | TMDS_100n | TMDS | TMDS CLK P | 85 | 94 |
| TMDS_100n | TMDS_100n | TMDS | TMDS CLK N | 85 | 94 |
| TMDS_100n | TMDS_100n | TMDS | TMDS CONN DP<3..0> | 94 | |
| TMDS_100n | TMDS_100n | TMDS | TMDS CONN DN<3..0> | 94 | |
| TMDS_100n | TMDS_100n | TMDS | TMDS CONN CLKP | 94 | |
| TMDS_100n | TMDS_100n | TMDS | TMDS CONN CLKN | 94 | |
| (USB_EXT_A) | USR_90n | USR | USB PORT0 P | 46 | |
| (USB_EXT_A) | USR_90n | USR | USB PORT0 N | 46 | |
| (USB_EXTB) | USR_90n | USR | USB PORT1 P | 46 | |
| (USB_EXTB) | USR_90n | USR | USB PORT1 N | 46 | |
| (USB_EXTC) | USR_90n | USR | USB PORT2 P | 46 | |
| (USB_EXTC) | USR_90n | USR | USB PORT2 N | 46 | |
| (USB_EXTD) | USR_90n | USR | USB C MUXED P | 46 | |
| (USB_EXTD) | USR_90n | USR | USB C MUXED N | 46 | |
| (USB_CAMERA) | USR_90n | USR | USB CAMERA L P | 47 | |
| (USB_CAMERA) | USR_90n | USR | USB CAMERA L N | 47 | |
| (USB_IR) | USR_90n | USR | USB IR L P | 47 | 58 |
| (USB_IR) | USR_90n | USR | USB IR L N | 47 | 58 |
| LVDS_A_CLK | LVDS_100n | LVDS | LVDS L CLK P | 85 | 90 |
| LVDS_A_CLK | LVDS_100n | LVDS | LVDS L CLK N | 85 | 90 |
| LVDS_A_DATA | LVDS_100n | LVDS | LVDS L DATA P<3..0> | 85 | 90 |
| LVDS_A_DATA | LVDS_100n | LVDS | LVDS L DATA N<3..0> | 85 | 90 |
| LVDS_B_CLK | LVDS_100n | LVDS | LVDS U CLK P | 85 | 90 |
| LVDS_B_CLK | LVDS_100n | LVDS | LVDS U CLK N | 85 | 90 |
| LVDS_B_DATA | LVDS_100n | LVDS | LVDS U DATA P<3..0> | 85 | 90 |
| LVDS_B_DATA | LVDS_100n | LVDS | LVDS U DATA N<3..0> | 85 | 90 |
| PCIe_100n | PCIe | PCIe | PCIe FW R2D N | 7 | 40 |
| PCIe_100n | PCIe | PCIe | PCIe FW R2D P | 7 | 40 |
| PCIe_100n | PCIe | PCIe | PCIe FW D2R C N | 40 | |
| PCIe_100n | PCIe | PCIe | PCIe FW D2R C P | 40 | |
| PCIe_100n | PCIe | PCIe | PCIe ENET R2D P | 7 | 37 |
| PCIe_100n | PCIe | PCIe | PCIe ENET R2D N | 7 | 37 |
| PCIe_100n | PCIe | PCIe | PCIe ENET D2R C P | 37 | |
| PCIe_100n | PCIe | PCIe | PCIe ENET D2R C N | 37 | |
| PCIe_100n | PCIe | PCIe | PCIe MINI R2D N | 34 | |
| PCIe_100n | PCIe | PCIe | PCIe MINI R2D P | 34 | |
| ENET_MDI_T | ENET_100n | ENET_MDI | ENET MDI T P<0> | 39 | |
| ENET_MDI_T | ENET_100n | ENET_MDI | ENET MDI T N<0> | 39 | |
| ENET_MDI_T | ENET_100n | ENET_MDI | ENET MDI T P<1> | 39 | |
| ENET_MDI_T | ENET_100n | ENET_MDI | ENET MDI T N<1> | 39 | |
| ENET_MDI_T | ENET_100n | ENET_MDI | ENET MDI T P<2> | 39 | |
| ENET_MDI_T | ENET_100n | ENET_MDI | ENET MDI T N<2> | 39 | |
| ENET_MDI_T | ENET_100n | ENET_MDI | ENET MDI T P<3> | 39 | |
| ENET_MDI_T | ENET_100n | ENET_MDI | ENET MDI T N<3> | 39 | |
| ENET_100n | ENET_MDI | ENET_MDI | ENET MDI R P<0> | | |
| ENET_100n | ENET_MDI | ENET_MDI | ENET MDI R N<0> | | |
| ENET_100n | ENET_MDI | ENET_MDI | ENET MDI R P<1> | | |
| ENET_100n | ENET_MDI | ENET_MDI | ENET MDI R N<1> | | |
| ENET_100n | ENET_MDI | ENET_MDI | ENET MDI R P<2> | | |
| ENET_100n | ENET_MDI | ENET_MDI | ENET MDI R N<2> | | |
| ENET_100n | ENET_MDI | ENET_MDI | ENET MDI R P<3> | | |
| ENET_100n | ENET_MDI | ENET_MDI | ENET MDI R N<3> | | |
| CRT_50S | CRT | CRT | GPU_TV_COMP | 85 | 91 |
| CRT_50S | CRT | CRT | GPU_TV_C | 85 | 91 |
| CRT_50S | CRT | CRT | GPU_TV_Y | 85 | 91 |
| CRT_50S | CRT | CRT | GPU_RED | 85 | 91 |
| CRT_50S | CRT | CRT | GPU_GRN | 85 | 91 |
| CRT_50S | CRT | CRT | GPU_BLU | 85 | 91 |
| (CRT_SYNC) | CRT_55S | CRT_SYNC | GPU_H2SYNC | 85 | 91 |
| (CRT_SYNC) | CRT_55S | CRT_SYNC | GPU_V2SYNC | 85 | 91 |
| CRT_SYNC | CRT_55S | CRT_SYNC | VGA_HSYNC | 91 | 94 |
| CRT_SYNC | CRT_55S | CRT_SYNC | VGA_VSYNC | 91 | 94 |
| (CRT_SYNC) | CRT_55S | CRT_SYNC | GPU_BUF_HSYNC | | |
| (CRT_SYNC) | CRT_55S | CRT_SYNC | GPU_BUF_VSYNC | | |
| CRT_50S | CRT | CRT | VIDEO_MUX_RED | 91 | |
| CRT_50S | CRT | CRT | VIDEO_MUX_GRN | 91 | |
| CRT_50S | CRT | CRT | VIDEO_MUX_BLU | 91 | |
| CRT_55S | CRT | CRT | VGA_RED | 91 | 94 |
| CRT_55S | CRT | CRT | VGA_GRN | 91 | 94 |
| CRT_55S | CRT | CRT | VGA_BLU | 91 | 94 |
| THERM_DIFF | THERM_DIFF | THERMAL | HDD_THRMD_P | 55 | |
| THERM_DIFF | THERM_DIFF | THERMAL | HDD_THRMD_N | 55 | |
| THERM_DIFF | THERM_DIFF | THERMAL | ODD_THRMD_P | 55 | |
| THERM_DIFF | THERM_DIFF | THERMAL | ODD_THRMD_N | 55 | |
| THERM_DIFF | THERM_DIFF | THERMAL | CPU_THRMD_P | 10 | 55 |
| THERM_DIFF | THERM_DIFF | THERMAL | CPU_THRMD_N | 10 | 55 |
| THERM_DIFF | THERM_DIFF | THERMAL | GPU_HSK_THRMD_P | 55 | |
| THERM_DIFF | THERM_DIFF | THERMAL | GPU_HSK_THRMD_N | 55 | |
| THERM_DIFF | THERM_DIFF | THERMAL | CPU_HSK_THRMD_P | 55 | |
| THERM_DIFF | THERM_DIFF | THERMAL | CPU_HSK_THRMD_N | 55 | |
| THERM_DIFF | THERM_DIFF | THERMAL | | | |

M72/M78 SPECIFIC NET PROPERTIES

| ELECTRICAL_CONSTRAINT_SET | NET_TYPE | | | |
|---------------------------|------------|-----------------------|----|----|
| | PHYSICAL | SPACING | | |
| SWITCHNODE | SWITCHNODE | IMVP6_PHASE1 | 71 | |
| SWITCHNODE | SWITCHNODE | IMVP6_PHASE2 | 71 | |
| SWITCHNODE | SWITCHNODE | IMVP6_PHASE3 | 73 | |
| SWITCHNODE | SWITCHNODE | 1V05REG_SWITCHNODE | 73 | |
| SWITCHNODE | SWITCHNODE | 1V55REG_SWITCHNODE | 73 | |
| SWITCHNODE | SWITCHNODE | MCH_CORES0_SWITCHNODE | 74 | |
| SWITCHNODE | SWITCHNODE | 1V25REG_SWITCHNODE | 74 | |
| SWITCHNODE | SWITCHNODE | 1V8S3_PHASE | 75 | |
| SWITCHNODE | SWITCHNODE | 5VS5_SW | 76 | |
| SWITCHNODE | SWITCHNODE | 3V3S3_SW | 76 | |
| SWITCHNODE | SWITCHNODE | P3V3S5_SW | 77 | |
| SWITCHNODE | SWITCHNODE | P2V5S0_SW | 77 | |
| SMS | SMS | SMS_X_AXIS | 49 | 50 |
| SMS | SMS | SMS_Y_AXIS | 49 | 50 |
| SMS | SMS | SMS_Z_AXIS | 49 | 50 |

M72/M78 SPECIFIC CONSTRAINTS

SYNC_MASTER=T9_MLB

SYNC_DATE=09/27/2006

NOTICE OF PROPRIETARY PROPERTY

THE INFORMATION CONTAINED HEREIN IS THE PROPRIETARY PROPERTY OF APPLE COMPUTER, INC. THE POSSESSOR AGREES TO THE FOLLOWING

I TO MAINTAIN THE DOCUMENT IN CONFIDENCE

II NOT TO REPRODUCE OR COPY IT

III NOT TO REVEAL OR PUBLISH IN WHOLE OR PART

APPLE INC.

SIZE D

DRAWING NUMBER 051-7229

REV. H

SCALE NONE

SHT 108 OF 118

[illegible]

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

| | | | | | | | | |
|--|--|--|---|---|---|---|---|---|
| | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| | <div>NC_SMC_SYS_VSET</div> <div>NC_SMC_SYS_VSET - @m78_lib.M78</div> <div>50D3</div> <div>49B5 50D5</div> <div>ODD_PWR_EN_L</div> <div>ODD_PWR_EN_L - @m78_lib.M78</div> <div>24A4 24A6</div> <div>ODD_RST_SVTOL_L</div> <div>ODD_RST_SVTOL_L - @m78_lib.M78</div> <div>24B6 44C5 103D3</div> <div>ODD_THRMD_N</div> <div>ODD_THRMD_N - @m78_lib.M78</div> <div>55A5 55B6 108A3</div> <div>ODD_THRMD_P</div> <div>ODD_THRMD_P - @m78_lib.M78</div> <div>55B5 55B6 108A3</div> <div>PIV850_EN_L</div> <div>PIV850_EN_L - @m78_lib.M78</div> <div>78A7</div> <div>PIV850_EN_L_RC</div> <div>PIV850_EN_L_RC - @m78_lib.M78</div> <div>78A6</div> <div>PIV850_GDRV</div> <div>PIV850_GDRV - @m78_lib.M78</div> <div>78B7</div> <div>PIV850_SS</div> <div>PIV850_SS - @m78_lib.M78</div> <div>78B6</div> <div>PIV850_SS_RC</div> <div>PIV850_SS_RC - @m78_lib.M78</div> <div>78B7</div> <div>P2V580_EN</div> <div>P2V580_EN - @m78_lib.M78</div> <div>77B5</div> <div>P2V580_SW</div> <div>P2V580_SW - @m78_lib.M78</div> <div>77B4 108D1</div> <div>P2V580_VFB</div> <div>P2V580_VFB - @m78_lib.M78</div> <div>77B4</div> <div>P3V350_EN_L</div> <div>P3V350_EN_L - @m78_lib.M78</div> <div>78C5</div> <div>P3V350_SS</div> <div>P3V350_SS - @m78_lib.M78</div> <div>77D5</div> <div>P3V355_FB</div> <div>P3V355_FB - @m78_lib.M78</div> <div>77D5</div> <div>P3V355_SW</div> <div>P3V355_SW - @m78_lib.M78</div> <div>77D5 108D1</div> <div>P5VRQG_FCB</div> <div>P5VRQG_FCB - @m78_lib.M78</div> <div>76A3 76B5</div> <div>P5VRQG_FSEL</div> <div>P5VRQG_FSEL - @m78_lib.M78</div> <div>76A2 76B4</div> <div>P5V80_EN_L</div> <div>P5V80_EN_L - @m78_lib.M78</div> <div>78D5</div> <div>P5V80_SS</div> <div>P5V80_SS - @m78_lib.M78</div> <div>78D4</div> <div>P5V83_EN_L</div> <div>P5V83_EN_L - @m78_lib.M78</div> <div>78D8</div> <div>P5V83_SS</div> <div>P5V83_SS - @m78_lib.M78</div> <div>78D7</div> <div>P5V85_EN</div> <div>P5V85_EN - @m78_lib.M78</div> <div>77D6</div> <div>PI2V_S3_DRAIN</div> <div>PI2V_S3_DRAIN - @m78_lib.M78</div> <div>78C1</div> <div>PI2V_S3_EN_L</div> <div>PI2V_S3_EN_L - @m78_lib.M78</div> <div>78D3</div> <div>PANEL_ID</div> <div>PANEL_ID - @m78_lib.M78</div> <div>28B2</div> <div>TP_SB_GPIO20</div> <div>TP_SB_GPIO20 - @m78_lib.M78</div> <div>25C5 28B1</div> <div>PCIE_ENET_D2R_C_N</div> <div>PCIE_ENET_D2R_C_N - @m78_lib.M78</div> <div>37C4 108C3</div> <div>PCIE_ENET_D2R_C_P</div> <div>PCIE_ENET_D2R_C_P - @m78_lib.M78</div> <div>37C4 108C3</div> <div>PCIE_ENET_D2R_N</div> <div>PCIE_ENET_D2R_N - @m78_lib.M78</div> <div>7B8 24C5 37C8 104C3</div> <div>PCIE_ENET_D2R_P</div> <div>PCIE_ENET_D2R_P - @m78_lib.M78</div> <div>7B8 24C5 37C8 104C3</div> <div>PCIE_ENET_R2D_C_N</div> <div>PCIE_ENET_R2D_C_N - @m78_lib.M78</div> <div>24C5 37C8 104C3</div> <div>PCIE_ENET_R2D_C_P</div> <div>PCIE_ENET_R2D_C_P - @m78_lib.M78</div> <div>24C5 37C8 104C3</div> <div>PCIE_ENET_R2D_N</div> <div>PCIE_ENET_R2D_N - @m78_lib.M78</div> <div>7D6 37C4 108C3</div> <div>PCIE_ENET_R2D_P</div> <div>PCIE_ENET_R2D_P - @m78_lib.M78</div> <div>7D6 37C4 108C3</div> <div>PCIE_FW_D2R_C_N</div> <div>PCIE_FW_D2R_C_N - @m78_lib.M78</div> <div>40C3 108C3</div> <div>PCIE_FW_D2R_C_P</div> <div>PCIE_FW_D2R_C_P - @m78_lib.M78</div> <div>40C3 108C3</div> <div>PCIE_FW_D2R_N</div> <div>PCIE_FW_D2R_N - @m78_lib.M78</div> <div>7B8 40C2 42A3 104C3</div> <div>PCIE_FW_D2R_P</div> <div>PCIE_FW_D2R_P - @m78_lib.M78</div> <div>7B8 40C2 42A3 104C3</div> <div>TP_PCIE_FW_D2R_N</div> <div>TP_PCIE_FW_D2R_N - @m78_lib.M78</div> <div>24D5 42A1</div> <div>PCIE_FW_R2D_C_N</div> <div>PCIE_FW_R2D_C_N - @m78_lib.M78</div> <div>7B8 40C2 42A3 104C3</div> <div>PCIE_FW_R2D_C_P</div> <div>PCIE_FW_R2D_C_P - @m78_lib.M78</div> <div>24D5 42A1</div> <div>PCIE_FW_R2D_N</div> <div>PCIE_FW_R2D_N - @m78_lib.M78</div> <div>40C1 42A1 104C3</div> <div>PCIE_FW_R2D_P</div> <div>PCIE_FW_R2D_P - @m78_lib.M78</div> <div>40C1 42A1 104C3</div> <div>TP_PCIE_FW_R2D_C_N</div> <div>TP_PCIE_FW_R2D_C_N - @m78_lib.M78</div> <div>24D5 42A1</div> <div>PCIE_FW_R2D_N</div> <div>PCIE_FW_R2D_N - @m78_lib.M78</div> <div>7D6 40C3 108C3</div> <div>PCIE_FW_R2D_P</div> <div>PCIE_FW_R2D_P - @m78_lib.M78</div> <div>7D6 40C3 108C3</div> <div>PCIE_MINI_D2R_N</div> <div>PCIE_MINI_D2R_N - @m78_lib.M78</div> <div>7B8 24D5 34C8 104C3</div> <div>PCIE_MINI_D2R_P</div> <div>PCIE_MINI_D2R_P - @m78_lib.M78</div> <div>7B8 24C5 34C8 104C3</div> <div>PCIE_MINI_R2D_C_N</div> <div>PCIE_MINI_R2D_C_N - @m78_lib.M78</div> <div>24C5 34B8 104C3</div> <div>PCIE_MINI_R2D_C_P</div> <div>PCIE_MINI_R2D_C_P - @m78_lib.M78</div> <div>24C5 34B8 104C3</div> <div>PCIE_MINI_R2D_N</div> <div>PCIE_MINI_R2D_N - @m78_lib.M78</div> <div>34B6 108B3</div> <div>PCIE_MINI_R2D_P</div> <div>PCIE_MINI_R2D_P - @m78_lib.M78</div> <div>34B6 108B3</div> <div>PCIE_WAKE_L</div> <div>PCIE_WAKE_L - @m78_lib.M78</div> <div>25C8 34C6 37B8</div> <div>PCI_AD<0></div> <div>PCI_AD<0> - @m78_lib.M78</div> <div>24B8 28C5</div> <div>TP_PCI_AD_0</div> <div>TP_PCI_AD_0 - @m78_lib.M78</div> <div>28C4</div> <div>PCI_AD<18..0></div> <div>PCI_AD<18..0> - @m78_lib.M78</div> <div>104D3</div> <div>TP_PCI_AD_18</div> <div>TP_PCI_AD_18 - @m78_lib.M78</div> <div>28B4</div> <div>PCI_AD<1></div> <div>PCI_AD<1> - @m78_lib.M78</div> <div>24B8 28C5</div> <div>TP_PCI_AD_1</div> <div>TP_PCI_AD_1 - @m78_lib.M78</div> <div>28C4</div> <div>PCI_AD<2></div> <div>PCI_AD<2> - @m78_lib.M78</div> <div>24B8 28C5</div> <div>TP_PCI_AD_2</div> <div>TP_PCI_AD_2 - @m78_lib.M78</div> <div>28C4</div> <div>PCI_AD<3></div> <div>PCI_AD<3> - @m78_lib.M78</div> <div>24B8 28C5</div> <div>TP_PCI_AD_3</div> <div>TP_PCI_AD_3 - @m78_lib.M78</div> <div>28C4</div> <div>PCI_AD<4></div> <div>PCI_AD<4> - @m78_lib.M78</div> <div>24B8 28C5</div> <div>TP_PCI_AD_4</div> <div>TP_PCI_AD_4 - @m78_lib.M78</div> <div>28C4</div> <div>PCI_AD<5></div> <div>PCI_AD<5> - @m78_lib.M78</div> <div>24B8 28C5</div> <div>TP_PCI_AD_5</div> <div>TP_PCI_AD_5 - @m78_lib.M78</div> <div>28C4</div> <div>PCI_AD<6></div> <div>PCI_AD<6> - @m78_lib.M78</div> <div>24B8 28C5</div> <div>TP_PCI_AD_6</div> <div>TP_PCI_AD_6 - @m78_lib.M78</div> <div>28C4</div> <div>PCI_AD<7></div> <div>PCI_AD<7> - @m78_lib.M78</div> <div>24B8 28C5</div> <div>TP_PCI_AD_7</div> <div>TP_PCI_AD_7 - @m78_lib.M78</div> <div>28C4</div> <div>PCI_AD<8></div> <div>PCI_AD<8> - @m78_lib.M78</div> <div>24B8 28C5</div> <div>TP_PCI_AD_8</div> <div>TP_PCI_AD_8 - @m78_lib.M78</div> <div>28C4</div> <div>PCI_AD<9></div> <div>PCI_AD<9> - @m78_lib.M78</div> <div>24B8 28C5</div> <div>TP_PCI_AD_9</div> <div>TP_PCI_AD_9 - @m78_lib.M78</div> <div>28C4</div> <div>PCI_AD<10></div> <div>PCI_AD<10> - @m78_lib.M78</div> <div>24B8 28C5</div> <div>TP_PCI_AD_10</div> <div>TP_PCI_AD_10 - @m78_lib.M78</div> <div>28C4</div> <div>PCI_AD<11></div> <div>PCI_AD<11> - @m78_lib.M78</div> <div>24A8 28C5</div> <div>TP_PCI_AD_11</div> <div>TP_PCI_AD_11 - @m78_lib.M78</div> <div>28C4</div> <div>PCI_AD<12></div> <div>PCI_AD<12> - @m78_lib.M78</div> <div>24A8 28C5</div> <div>TP_PCI_AD_12</div> <div>TP_PCI_AD_12 - @m78_lib.M78</div> <div>28C4</div> <div>PCI_AD<13></div> <div>PCI_AD<13> - @m78_lib.M78</div> <div>24A8 28C5</div> <div>TP_PCI_AD_13</div> <div>TP_PCI_AD_13 - @m78_lib.M78</div> <div>28C4</div> <div>PCI_AD<14></div> <div>PCI_AD<14> - @m78_lib.M78</div> <div>24A8 28C5</div> <div>TP_PCI_AD_14</div> <div>TP_PCI_AD_14 - @m78_lib.M78</div> <div>28C4</div> <div>PCI_AD<15></div> <div>PCI_AD<15> - @m78_lib.M78</div> <div>24A8 28C5</div> <div>TP_PCI_AD_15</div> <div>TP_PCI_AD_15 - @m78_lib.M78</div> <div>28C4</div> <div>PCI_AD<16></div> <div>PCI_AD<16> - @m78_lib.M78</div> <div>24A8 28C5</div> <div>TP_PCI_AD_16</div> <div>TP_PCI_AD_16 - @m78_lib.M78</div> <div>28C4</div> <div>PCI_AD<17></div> <div>PCI_AD<17> - @m78_lib.M78</div> <div>24A8 28C5</div> <div>TP_PCI_AD_17</div> <div>TP_PCI_AD_17 - @m78_lib.M78</div> <div>28C4</div> <div>PCI_AD<18></div> <div>PCI_AD<18> - @m78_lib.M78</div> <div>24A8 28B5</div> <div>TP_PCI_AD_18</div> <div>TP_PCI_AD_18 - @m78_lib.M78</div> <div>28B4</div> <div>PCI_AD<19></div> <div>PCI_AD<19> - @m78_lib.M78</div> <div>24A8 28B5 104D3</div> <div>TP_PCI_AD_19</div> <div>TP_PCI_AD_19 - @m78_lib.M78</div> <div>28B4</div> <div>PCI_AD<20></div> <div>PCI_AD<20> - @m78_lib.M78</div> <div>24A8 28B5 104D3</div> <div>TP_PCI_AD_20</div> <div>TP_PCI_AD_20 - @m78_lib.M78</div> <div>28B4</div> <div>PCI_AD<21></div> <div>PCI_AD<21> - @m78_lib.M78</div> <div>24A8 28B5</div> <div>TP_PCI_AD_21</div> <div>TP_PCI_AD_21 - @m78_lib.M78</div> <div>28B4</div> <div>PCI_AD<31..21></div> <div>PCI_AD<31..21> - @m78_lib.M78</div> <div>104D3</div> <div>TP_PCI_AD_31</div> <div>TP_PCI_AD_31 - @m78_lib.M78</div> <div>28B4</div> <div>PCI_AD<22></div> <div>PCI_AD<22> - @m78_lib.M78</div> <div>24A8 28B5</div> <div>TP_PCI_AD_22</div> <div>TP_PCI_AD_22 - @m78_lib.M78</div> <div>28B4</div> <div>PCI_AD<23></div> <div>PCI_AD<23> - @m78_lib.M78</div> <div>24A8 28B5</div> <div>TP_PCI_AD_23</div> <div>TP_PCI_AD_23 - @m78_lib.M78</div> <div>28B4</div> <div>PCI_AD<24></div> <div>PCI_AD<24> - @m78_lib.M78</div> <div>24A8 28B5</div> <div>TP_PCI_AD_24</div> <div>TP_PCI_AD_24 - @m78_lib.M78</div> <div>28B4</div> <div>PCI_AD<25></div> <div>PCI_AD<25> - @m78_lib.M78</div> <div>24A8 28B5</div> <div>TP_PCI_AD_25</div> <div>TP_PCI_AD_25 - @m78_lib.M78</div> <div>28B4</div> <div>PCI_AD<26></div> <div>PCI_AD<26> - @m78_lib.M78</div> <div>24A8 28B5</div> <div>TP_PCI_AD_26</div> <div>TP_PCI_AD_26 - @m78_lib.M78</div> <div>28B4</div> <div>PCI_AD<27></div> <div>PCI_AD<27> - @m78_lib.M78</div> <div>24A8 28B5</div> <div>TP_PCI_AD_27</div> <div>TP_PCI_AD_27 - @m78_lib.M78</div> <div>28B4</div> <div>PCI_AD<28></div> <div>PCI_AD<28> - @m78_lib.M78</div> <div>24A8 28B5</div> <div>TP_PCI_AD_28</div> <div>TP_PCI_AD_28 - @m78_lib.M78</div> <div>28B4</div> <div>PCI_AD<29></div> <div>PCI_AD<29> - @m78_lib.M78</div> <div>24A8 28B5</div> <div>TP_PCI_AD_29</div> <div>TP_PCI_AD_29 - @m78_lib.M78</div> <div>28B4</div> <div>PCI_AD<30></div> <div>PCI_AD<30> - @m78_lib.M78</div> <div>24A8 28B5</div> <div>TP_PCI_AD_30</div> <div>TP_PCI_AD_30 - @m78_lib.M78</div> <div>28B4</div> <div>PCI_AD<31></div> <div>PCI_AD<31> - @m78_lib.M78</div> <div>24A8 28B5</div> <div>TP_PCI_AD_31</div> <div>TP_PCI_AD_31 - @m78_lib.M78</div> <div>28B4</div> | <div>PC1_CLK33M_LPCPLUS</div> <div>PC1_CLK33M_LPCPLUS - @m78_lib.M78</div> <div>7D4 30A3 51C4 105C3</div> <div>PC1_CLK33M_SB</div> <div>PC1_CLK33M_SB - @m78_lib.M78</div> <div>7B8 24A6 30A3 105B3</div> <div>PC1_CLK33M_SMC</div> <div>PC1_CLK33M_SMC - @m78_lib.M78</div> <div>7C6 30A3 49C8 105B3</div> <div>PC1_CLK33M_TPM</div> <div>PC1_CLK33M_TPM - @m78_lib.M78</div> <div>105B3</div> <div>PC1_C_BE_L<0></div> <div>PC1_C_BE_L<0> - @m78_lib.M78</div> <div>24B6 28B5</div> <div>TP_PCI_C_BE_L_0</div> <div>TP_PCI_C_BE_L_0 - @m78_lib.M78</div> <div>28B4</div> <div>PC1_C_BE_L<3..0></div> <div>PC1_C_BE_L<3..0> - @m78_lib.M78</div> <div>104D3</div> <div>TP_PCI_C_BE_L_3</div> <div>TP_PCI_C_BE_L_3 - @m78_lib.M78</div> <div>28B4</div> <div>PC1_C_BE_L<1></div> <div>PC1_C_BE_L<1> - @m78_lib.M78</div> <div>24A6 28B5</div> <div>TP_PCI_C_BE_L_1</div> <div>TP_PCI_C_BE_L_1 - @m78_lib.M78</div> <div>28B4</div> <div>PC1_C_BE_L<2></div> <div>PC1_C_BE_L<2> - @m78_lib.M78</div> <div>24A6 28B5</div> <div>TP_PCI_C_BE_L_2</div> <div>TP_PCI_C_BE_L_2 - @m78_lib.M78</div> <div>28B4</div> <div>PC1_C_BE_L<3></div> <div>PC1_C_BE_L<3> - @m78_lib.M78</div> <div>24A6 28B5</div> <div>TP_PCI_C_BE_L_3</div> <div>TP_PCI_C_BE_L_3 - @m78_lib.M78</div> <div>28B4</div> <div>PCI_DEVSEL_L</div> <div>PCI_DEVSEL_L - @m78_lib.M78</div> <div>24A4 24A6 104D3</div> <div>PCI_FRAME_L</div> <div>PCI_FRAME_L - @m78_lib.M78</div> <div>24A4 24A6 104D3</div> <div>PCI_FW_GNT_L</div> <div>PCI_FW_GNT_L - @m78_lib.M78</div> <div>24B5 104D3</div> <div>BOOT_LPC_SPI_L</div> <div>BOOT_LPC_SPI_L - @m78_lib.M78</div> <div>7D4 24B5 51B6</div> <div>PCI_FW_REQ_L</div> <div>PCI_FW_REQ_L - @m78_lib.M78</div> <div>24A4 24B6 104D3</div> <div>PCI_GNT1_L</div> <div>PCI_GNT1_L - @m78_lib.M78</div> <div>104D3</div> <div>PCI_GNT2_L</div> <div>PCI_GNT2_L - @m78_lib.M78</div> <div>104C3</div> <div>PCI_IRDY_L</div> <div>PCI_IRDY_L - @m78_lib.M78</div> <div>24A4 24A6 104D3</div> <div>PCI_LOCK_L</div> <div>PCI_LOCK_L - @m78_lib.M78</div> <div>24A4 24A6 104D3</div> <div>PCI_PAR</div> <div>PCI_PAR - @m78_lib.M78</div> <div>24A6 28B5 104D3</div> <div>TP_PCI_PAR</div> <div>TP_PCI_PAR - @m78_lib.M78</div> <div>28B4</div> | | | | | | |

| 8 | | | 7 | | | 6 | | | 5 | | | 4 | | | 3 | | | 2 | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------|------------|-----------|-------|------------|-----------|-------|---|-------|--------|-----------|---|-------|---------|-----------|-------|------------|-----------|-------|----------------------|-----------|-------|--------|-----------|---|-------|------------|-----------|-------|------------|-----------|-------|-------------------|-----------|-------|--------|-----------|---|-------|---------|-----------|-------|------------|-----------|-------|-------------------|-----------|-------|-------------------|-----------|---|-------|---------|-----------|-------|---------|-----------|-------|-------------------|-----------|-------|--------|-----------|---|-------|---------|-----------|-------|----------------|-----------|-------|----------------------|-----------|-------|-------------------|-----------|---|-------|----------|-----------|-------|----------------|-----------|-------|-------------------|-----------|-------|--------|-----------|---|-------|------------|-----------|-------|---------|-----------|-------|----------------------|-----------|-------|-------------------|-----------|---|-------|---------|-----------|-------|---------|-----------|-------|----------------------|-----------|-------|--------|-----------|---|-------|------------------|-----------|-------|---------|-----------|-------|----------------------|-----------|-------|-------------------|-----------|---|-------|---------|-----------|-------|---------|-----------|-------|---------------------|-----------|-------|-------------------|-----------|---|-------|---------|-----------|-------|---------|-----------|-------|---------------------|-----------|-------|-------------------|-----------|---|-------|------------------|-----------|-------|---------|-----------|-------|---------------------|-----------|-------|-------------------|-----------|---|-------|---------|-----------|-------|---------|-----------|-------|---------------------|-----------|-------|-------------------|-----------|---|-------|---------|-----------|-------|---------|-----------|-------|---------------|-----------|-------|-------------------|-----------|---|-------|---------|-----------|-------|------------|-----------|-------|---------------------|-----------|-------|---------------|-----------|---|-------|-----------|-----------|-------|------------|-----------|--------|----------------|-----------|-------|---------------|-----------|---|-------|---------|-----------|-------|------------|-----------|--------|----------------------|----------------|-------|---------------|-----------|---|-------|---------|-----------|-------|---------|-----------|--------|----------------------|----------------|-------|----------------------|-----------|---|-------|---------|-----------|-------|---------|-----------|--------|----------------------|----------------|-----|-------|----------------------|-----------|---|-------|----------|-----------|-------|----------------|-----------|---|-------|---------------|-----------|---|-------|------------|-----------|-------|----------------|-----------|--------|-------------------|-----------|-------|-------------------|-----------|---|-------|------------|-----------|-------|----------------|-----------|-------|---------|-----------|-------|----------------|-----------|---|-------|---------|-----------|-------|---------|-----------|-------|---------|-----------|-------|----------|-----------|---|-------|---------|-----------|-------|---------|-----------|-------|----------|-----------|-------|--------|-----------|---|-------|---------|-----------|-------|---------|-----------|--------|-------------------|-----------|-------|----------|-----------|---|-------|---------|-----------|-------|---------|-----------|--------|-------------------|-----------|-------|----------|-----------|---|-------|---------|-----------|-------|---------|-----------|--------|-------------------|-----------|-------|----------|-----------|---|-------|---------|-----------|-------|---------|-----------|--------|-------------------|-----------|-------|----------|-----------|---|-------|------------|-----------|-------|---------|-----------|------|----------------------|----------|-------|----------|-----------|---|-------|------------|-----------|-------|---------|-----------|-------|-----------------|----------------|-------|--------------|-----------|---|-------|------------------|-----------|-------|---------|-----------|-------|-----------------|----------------|-------|--------------|-----------|---|-------|------------------|-----------|-------|---------|-----------|-------|-----------------------|-----------|-------|----------|-----------|---|-------|---------|-----------|-------|---------|-----------|-------|---------------|-----------|--------|-------------------|----------|---|-------|---------|-----------|-------|---------|-----------|-------|---------------------|-----------|--------|-------------------|----------|---|-------|------------------|-----------|-------|---------|-----------|-------|---------------------|-----------|--------|-------------------|----------|---|-------|---------|-----------|-------|---------|-----------|-------|----------------------|-----------|--------|-------------------|----------|---|-------|---------|-----------|-------|---------|-----------|-------|-------|-------|----------------------|-----------|---------|-------------------|-----------|---|-------|------------------|-----------|-------|---------|-----------|-------|------------|-------|----------------------|-----------|---------|-------------------|-----------|---|-------|---------|-----------|-------|---------|-----------|-------|--------------|-------|----------------------|-----------|---------|-------------------|-----------|---|-------|---------|-----------|-------|---------|-----------|-------|----------------------|-----------|--------|---------------|----------|---|-------|---------|-----------|-------|---------|-----------|-------|----------------------|-----------|--------|---------------|----------|---|-------|-----------|-----------|-------|---------|-----------|-------|----------------------|-----------|--------|---------------|----------|---|-------|---------|-----------|-------|-------------|-----------|-------|------------|-------|----------------------|-----------|--------|---------------|----------|---|-------|---------|-----------|-------|---------|-----------|-------|------------|-------|----------------------|-----------|--------|---------------|----------|---|-------|---------|-----------|-------|---------|-----------|-------|----------------------|-----------|--------|---------------|----------|---|-------|----------|-----------|-------|---------|-----------|-------|----------------------|-----------|-----|
| D | C7201 | CAP_1206-1 | m78[72D2] | C7640 | CAP_1206-1 | m78[76D6] | D7301 | 3 | L4300 | IND_SM | m78[43D3] | C | C7203 | CAP_402 | m78[72C2] | C7641 | CAP_1206-1 | m78[76D6] | D7373 | DIODE_SCHOT_5P_TLM83 | m78[73B3] | L4301 | IND_SM | m78[43B4] | B | C7208 | CAP_1206-1 | m78[72D2] | C7642 | CAP_1206-1 | m78[76D6] | D7374 | DIODE_SCHOT_SOT23 | m78[73C6] | L4610 | IND_SM | m78[46D3] | A | C7212 | CAP_402 | m78[72C3] | C7643 | CAP_1206-1 | m78[76D6] | D7400 | DIODE_SCHOT_SOT23 | m78[73C3] | L4612 | FILTER_4P_L701-SM | m78[46D3] | A | C7215 | CAP_603 | m78[72C5] | C7650 | CAP_805 | m78[76B7] | D7401 | DIODE_SCHOT_SOT23 | m78[74C6] | L4620 | IND_SM | m78[46C6] | A | C7235 | CAP_603 | m78[72D6] | C7651 | CAP_P_CASE-D3L | m78[76B8] | D7473 | DIODE_SCHOT_5P_TLM83 | m78[74B3] | L4622 | FILTER_4P_L701-SM | m78[46B6] | A | C7254 | CAP_P_TH | m78[72D2] | C7652 | CAP_P_CASE-D3L | m78[76B8] | D7474 | DIODE_SCHOT_SOT23 | m78[74C4] | L4630 | IND_SM | m78[46B6] | A | C7255 | CAP_1206-1 | m78[72D2] | C7661 | CAP_402 | m78[76B3] | D7520 | DIODE_SCHOT_5P_TLM83 | m78[75C4] | L4632 | FILTER_4P_L701-SM | m78[46A6] | A | C7290 | CAP_402 | m78[72C4] | C7662 | CAP_402 | m78[76C4] | D7600 | DIODE_SCHOT_5P_TLM83 | m78[76B7] | L4700 | IND_SM | m78[47D6] | A | C7300 | CAP_P_CASE-D2-SM | m78[73C8] | C7664 | CAP_402 | m78[76C3] | D7601 | DIODE_SCHOT_5P_TLM83 | m78[76B2] | L4701 | FILTER_4P_L701-SM | m78[47B6] | A | C7301 | CAP_805 | m78[73C8] | C7665 | CAP_402 | m78[76B4] | D7624 | DIODE_SCHOT_SOD-323 | m78[76C6] | L4710 | FILTER_4P_L701-SM | m78[47A6] | A | C7302 | CAP_402 | m78[73B7] | C7666 | CAP_402 | m78[76B3] | D7664 | DIODE_SCHOT_SOD-323 | m78[76C3] | L5050 | IND_3_8X3.8X1.5MM | m78[50A4] | A | C7303 | CAP_P_CASE-D2-SM | m78[73C7] | C7668 | CAP_402 | m78[76B2] | D7810 | DIODE_SCHOT_SOD-123 | m78[78D7] | L7100 | IND_HM56-11120-TH | m78[71D2] | A | C7304 | CAP_805 | m78[73C8] | C7669 | CAP_402 | m78[76B2] | D7890 | DIODE_SCHOT_SOD-123 | m78[78D2] | L7101 | IND_HM56-11120-TH | m78[71B2] | A | C7310 | CAP_603 | m78[73C7] | C7670 | CAP_402 | m78[76B4] | D9400 | ZENER_CASE425 | m78[94C1] | L7200 | IND_HM56-11120-TH | m78[72C3] | A | C7324 | CAP_402 | m78[73B7] | C7680 | CAP_1206-1 | m78[76D3] | D9410 | DIODE_SCHOT_SOD-123 | m78[94D6] | L7300 | IND_MM06EZ-SM | m78[73C7] | A | C7330 | CAP_603-1 | m78[73D6] | C7681 | CAP_1206-1 | m78[76D4] | DE4300 | DIODE_SCHOT_SM | m78[43D7] | L7360 | IND_MM06EZ-SM | m78[73C2] | A | C7331 | CAP_603 | m78[73C6] | C7682 | CAP_P_SM-1 | m78[76D4] | DP4310 | DIODE_DUAL_6P_SOT-36 | m78[43D4 43D3] | L7400 | IND_MM06EZ-SM | m78[74C7] | A | C7332 | CAP_402 | m78[73B5] | C7689 | CAP_402 | m78[76B4] | DP4311 | DIODE_DUAL_6P_SOT-36 | m78[43C4 43C3] | L7460 | IND_IHLP5050-MMD12CE | m78[74C2] | A | C7335 | CAP_402 | m78[73B6] | C7690 | CAP_805 | m78[76B2] | DP4320 | DIODE_DUAL_6P_SOT-36 | m78[43B5 43B4] | -SM | L7580 | IND_IHLP5050-MMD12CE | m78[75C3] | A | C7340 | CAP_P_TH | m78[73D7] | C7691 | CAP_P_CASE-D3L | m78[76B1] | 3 | L7620 | IND_MM06EZ-SM | m78[76B7] | A | C7341 | CAP_1206-1 | m78[73D7] | C7692 | CAP_P_CASE-D3L | m78[76B1] | DS4599 | LED_2_0X1.25MM-SM | m78[45C2] | L7680 | IND_HM56-11123-TH | m78[76B2] | A | C7342 | CAP_1206-1 | m78[73D6] | C7693 | CAP_P_CASE-D3L | m78[76B1] | F4300 | FUSE_SM | m78[43D6] | L7700 | IND_SM-MSS5131 | m78[77B4] | A | C7345 | CAP_402 | m78[73B3] | C7700 | CAP_805 | m78[77C6] | F4310 | FUSE_SM | m78[43D6] | L7710 | IND_IHLP | m78[77D4] | A | C7360 | CAP_603 | m78[73D2] | C7701 | CAP_402 | m78[77C5] | F4310 | FUSE_805 | m78[94D5] | L9000 | IND_SM | m78[90C6] | A | C7361 | CAP_603 | m78[73C2] | C7702 | CAP_402 | m78[77B3] | FL4300 | FILTER_4P_L701-SM | m78[43B3] | L9140 | IND_0402 | m78[91A5] | A | C7364 | CAP_402 | m78[73B2] | C7705 | CAP_805 | m78[77B3] | FL4310 | FILTER_4P_L701-SM | m78[43B3] | L9141 | IND_0402 | m78[91B5] | A | C7370 | CAP_402 | m78[73B2] | C7706 | CAP_805 | m78[77B3] | FL4310 | FILTER_4P_L701-SM | m78[43B3] | L9142 | IND_0402 | m78[91B5] | A | C7372 | CAP_402 | m78[73B4] | C7707 | CAP_805 | m78[77B3] | FL4310 | FILTER_4P_L701-SM | m78[43B3] | L9160 | IND_0402 | m78[91B2] | A | C7381 | CAP_1206-1 | m78[73D2] | C7710 | CAP_805 | m78[77D6] | J600 | CON_M12RT_D_THB_M-RT | m78[6D7] | L9161 | IND_0402 | m78[91A2] | A | C7382 | CAP_1206-1 | m78[73D2] | C7712 | CAP_402 | m78[77D4] | J1000 | MEROM_BGA-SKT-P | m78[10C3 10D7] | L9400 | FILTER_4P_SM | m78[94D7] | A | C7390 | CAP_P_CASE-D2-SM | m78[73C1] | C7715 | CAP_805 | m78[77D3] | J1000 | MEROM_BGA-SKT-P | m78[11D3 11D7] | L9401 | FILTER_4P_SM | m78[94D7] | A | C7391 | CAP_P_CASE-D2-SM | m78[73C2] | C7800 | CAP_402 | m78[78D4] | J1300 | CON_F60SFT_D_SML_F-ST | m78[13C4] | L9410 | IND_SM-1 | m78[94D4] | A | C7392 | CAP_805 | m78[73C1] | C7801 | CAP_402 | m78[78D4] | J2800 | BATTERY_2P_SM | m78[28D8] | LED601 | LED_2_0X1.25MM-SM | m78[6A8] | A | C7393 | CAP_805 | m78[73C1] | C7810 | CAP_402 | m78[78D6] | J3100 | CON_F200RT_DDR2DIMM | m78[31D5] | LED602 | LED_2_0X1.25MM-SM | m78[6A7] | A | C7400 | CAP_P_CASE-D2-SM | m78[74C8] | C7811 | CAP_402 | m78[78D7] | J3200 | CON_F200RT_DDR2DIMM | m78[32D5] | LED603 | LED_2_0X1.25MM-SM | m78[6A6] | A | C7401 | CAP_805 | m78[74C8] | C7850 | CAP_402 | m78[78C4] | J3400 | CON_F52RT_D2MT_SM_F- | m78[34C5] | LED604 | LED_2_0X1.25MM-SM | m78[6B7] | A | C7402 | CAP_402 | m78[74B7] | C7851 | CAP_402 | m78[78C4] | J3900 | RT-SM | J3900 | CON_RJ45_8ANG_D3MT_T | m78[39C3] | LED3900 | LED_2_0X1.25MM-SM | m78[39A7] | A | C7403 | CAP_P_CASE-D2-SM | m78[74C7] | C7890 | CAP_805 | m78[78D2] | J4300 | H_F-ANG-TH | J4300 | CON_F9ANG_1394B_D6MT | m78[43C2] | LED3901 | LED_2_0X1.25MM-SM | m78[39A7] | A | C7404 | CAP_805 | m78[74C8] | C7891 | CAP_402 | m78[78D2] | J4301 | _TH_F-ANG-TH | J4301 | CON_F6ANG_S3MT_1394A | m78[43B2] | LED4400 | LED_2_0X1.25MM-SM | m78[44B5] | A | C7410 | CAP_603 | m78[74C7] | C7895 | CAP_402 | m78[78B7] | J4401 | CON_M5OST_D2MT_SM1_M | m78[44C4] | PP1000 | PROBEPOINT_SM | m78[7D7] | A | C7424 | CAP_402 | m78[74B7] | C7896 | CAP_402 | m78[78A6] | J4510 | CON_M7ST_SATA_SM_M-S | m78[45D7] | PP1001 | PROBEPOINT_SM | m78[7D7] | A | C7430 | CAP_603-1 | m78[74D6] | C7899 | CAP_402 | m78[78B6] | J4610 | CON_F4ANG_S4MT_USB_T | m78[46D1] | PP1002 | PROBEPOINT_SM | m78[7D7] | A | C7431 | CAP_603 | m78[74C6] | C8400 | CAP_P_SM-LF | m78[84C5] | J4620 | H_F-ANG-TH | J4620 | CON_F4ANG_S4MT_USB_T | m78[46A4] | PP1003 | PROBEPOINT_SM | m78[7D7] | A | C7432 | CAP_402 | m78[74B7] | C8401 | CAP_805 | m78[84C7] | J4630 | H_F-ANG-TH | J4630 | CON_F4ANG_S4MT_USB_T | m78[46A4] | PP1004 | PROBEPOINT_SM | m78[7D7] | A | C7435 | CAP_402 | m78[74B6] | C8420 | CAP_402 | m78[84C7] | J4700 | CON_M5ST_S2MT_SM_M-S | m78[47B5] | PP1005 | PROBEPOINT_SM | m78[7D7] | A | C7440 | CAP_P_TH | m78[74D7] | C8421 | CAP_402 | m78[84C7] | J4720 | CON_F10ST_D_SMA_F-ST | m78[47D2] | PP1 |

| | | | | | | | | | | | | |
|---|--------|---------------|----------|-------|----------------------|----------------|-------|---------|-----------|-------|---------|-----------|
| D | PP1442 | PROBEPOINT_SM | m78[7C6] | Q5702 | TRA_2N7002_SOT23-LF | m78[57C5] | R1691 | RES_402 | m78[16A3] | R3030 | RES_402 | m78[30A4] |
| | PP1443 | PROBEPOINT_SM | m78[7C6] | Q7006 | TRA_DUAL_SSM6N15FE_S | m78[70A7 70B6] | R2141 | RES_603 | m78[21B7] | R3032 | RES_402 | m78[30C7] |
| | PP1444 | PROBEPOINT_SM | m78[7B6] | | OT563 | | R2145 | RES_603 | m78[21B7] | R3033 | RES_402 | m78[30C7] |
| | PP1445 | PROBEPOINT_SM | m78[7B6] | Q7007 | TRA_DUAL_SSM6N15FE_S | m78[70A6 70B6] | R2150 | RES_603 | m78[21A7] | R3034 | RES_402 | m78[30A7] |
| | PP1446 | PROBEPOINT_SM | m78[7B6] | | OT563 | | R2170 | RES_603 | m78[21D4] | R3035 | RES_402 | m78[30A7] |
| | PP1447 | PROBEPOINT_SM | m78[7B6] | Q7100 | TRA_MOSFET_NCHN_5P1_ | m78[71D3] | R2183 | RES_402 | m78[21C2] | R3046 | RES_402 | m78[30C1] |
| | PP1448 | PROBEPOINT_SM | m78[7B6] | | MLP5X6-LFFAK | | R2185 | RES_402 | m78[21C3] | R3047 | RES_402 | m78[30C1] |
| | PP1449 | PROBEPOINT_SM | m78[7B6] | Q7101 | TRA_MOSFET_NCHN_5P1_ | m78[71D3] | R2186 | RES_402 | m78[21B3] | R3050 | RES_402 | m78[30D1] |
| | PP1450 | PROBEPOINT_SM | m78[7B6] | | MLP5X6-LFFAK-DFN | | R2190 | RES_402 | m78[21B3] | R3051 | RES_402 | m78[30D1] |
| | PP1451 | PROBEPOINT_SM | m78[7B6] | Q7102 | TRA_MOSFET_NCHN_5P1_ | m78[71C3] | R2195 | RES_402 | m78[21A3] | R3052 | RES_402 | m78[30D1] |
| C | PP1452 | PROBEPOINT_SM | m78[7B6] | | MLP5X6-LFFAK | | R2200 | RES_402 | m78[22B2] | R3053 | RES_402 | m78[30C1] |
| | PP1453 | PROBEPOINT_SM | m78[7B6] | Q7103 | TRA_MOSFET_NCHN_5P1_ | m78[71B3] | R2201 | RES_402 | m78[22A2] | R3054 | RES_402 | m78[30C1] |
| | PP1454 | PROBEPOINT_SM | m78[7B6] | | MLP5X6-LFFAK-DFN | | R2202 | RES_402 | m78[22B2] | R3055 | RES_402 | m78[30C1] |
| | PP1455 | PROBEPOINT_SM | m78[7B6] | Q7104 | TRA_MOSFET_NCHN_5P1_ | m78[71C3] | R2203 | RES_402 | m78[22A2] | R3067 | RES_402 | m78[30D7] |
| | PP1456 | PROBEPOINT_SM | m78[7B6] | | MLP5X6-LFFAK-DFN | | R2300 | RES_402 | m78[23D7] | R3080 | RES_402 | m78[30C7] |
| | PP1457 | PROBEPOINT_SM | m78[7B6] | Q7105 | TRA_MOSFET_NCHN_5P1_ | m78[71B3] | R2301 | RES_402 | m78[23D7] | R3081 | RES_402 | m78[30C7] |
| | PP1458 | PROBEPOINT_SM | m78[7B6] | | MLP5X6-LFFAK-DFN | | R2302 | RES_402 | m78[23D6] | R3082 | RES_402 | m78[30C7] |
| | PP1459 | PROBEPOINT_SM | m78[7B6] | Q7200 | TRA_MOSFET_NCHN_5P1_ | m78[72C4] | R2303 | RES_402 | m78[23D3] | R3083 | RES_402 | m78[30C7] |
| | PP1460 | PROBEPOINT_SM | m78[7B6] | | MLP5X6-LFFAK | | R2304 | RES_402 | m78[23C3] | R3084 | RES_402 | m78[30B7] |
| | PP1461 | PROBEPOINT_SM | m78[7B6] | Q7201 | TRA_MOSFET_NCHN_5P1_ | m78[72C4] | R2305 | RES_402 | m78[23C3] | R3085 | RES_402 | m78[30B7] |
| B | PP1462 | PROBEPOINT_SM | m78[7B6] | | MLP5X6-LFFAK-DFN | | R2306 | RES_402 | m78[23D3] | R3086 | RES_402 | m78[30B7] |
| | PP1463 | PROBEPOINT_SM | m78[7B6] | Q7204 | TRA_MOSFET_NCHN_5P1_ | m78[72C3] | R2308 | RES_402 | m78[23C3] | R3087 | RES_402 | m78[30B7] |
| | PP1464 | PROBEPOINT_SM | m78[7B6] | | MLP5X6-LFFAK-DFN | | R2309 | RES_402 | m78[23C3] | R3088 | RES_402 | m78[30B7] |
| | PP1465 | PROBEPOINT_SM | m78[7B6] | Q7300 | TRA_FDM59620S_MLP | m78[73C6] | R2310 | RES_402 | m78[23D6] | R3089 | RES_402 | m78[30B7] |
| | PP1466 | PROBEPOINT_SM | m78[7B6] | | TRA_FDM59620S_MLP | | R2311 | RES_402 | m78[23D6] | R3090 | RES_402 | m78[30B7] |
| | PP1467 | PROBEPOINT_SM | m78[7B6] | Q7400 | TRA_FDM59620S_MLP | m78[74C6] | R2313 | RES_402 | m78[23C7] | R3091 | RES_402 | m78[30B7] |
| | PP1468 | PROBEPOINT_SM | m78[7B6] | | TRA_FDM59620S_MLP | | R2314 | RES_402 | m78[23C7] | R3098 | RES_402 | m78[30B4] |
| | PP1469 | PROBEPOINT_SM | m78[7B6] | Q7460 | TRA_FDM6296_MICROFET | m78[74C3] | R2315 | RES_402 | m78[23C7] | R3100 | RES_402 | m78[31D2] |
| | PP1470 | PROBEPOINT_SM | m78[7A6] | | 3X3 | | R2316 | RES_402 | m78[23B7] | R3101 | RES_402 | m78[31C2] |
| | PP1471 | PROBEPOINT_SM | m78[7A6] | Q7461 | TRA_FDM6296_MICROFET | m78[74C3] | R2400 | RES_402 | m78[24C7] | R3140 | RES_402 | m78[31A3] |
| A | PP1472 | PROBEPOINT_SM | m78[7A6] | | 3X3 | | R2401 | RES_402 | m78[24C7] | R3141 | RES_402 | m78[31A3] |
| | PP1473 | PROBEPOINT_SM | m78[7A6] | Q7520 | TRA_MOSFET_NCHN_5P1_ | m78[75D4] | R2402 | RES_402 | m78[24C7] | R3200 | RES_402 | m78[32C2] |
| | PP1474 | PROBEPOINT_SM | m78[7A6] | | MLP5X6-LFFAK | | R2403 | RES_402 | m78[24C7] | R3201 | RES_402 | m78[32C2] |
| | PP1475 | PROBEPOINT_SM | m78[7A6] | Q7521 | TRA_MOSFET_NCHN_5P1_ | m78[75C4] | R2404 | RES_402 | m78[24C7] | R3240 | RES_402 | m78[32A3] |
| | PP1476 | PROBEPOINT_SM | m78[7A6] | | MLP5X6-LFFAK-DFN | | R2405 | RES_402 | m78[24C6] | R3241 | RES_402 | m78[32A3] |
| | PP1477 | PROBEPOINT_SM | m78[7A6] | Q7603 | TRA_2N7002_SOT23-LF | m78[76A6] | R2406 | RES_402 | m78[24B6] | R3300 | RES_402 | m78[33D5] |
| | PP1478 | PROBEPOINT_SM | m78[7A6] | | TRA_FDM59620S_MLP | | R2407 | RES_402 | m78[24C6] | R3301 | RES_402 | m78[33D5] |
| | PP1479 | PROBEPOINT_SM | m78[7A6] | Q7640 | TRA_SINGLE_MOSFET_PC | m78[53B7] | R2408 | RES_402 | m78[24C6] | R3302 | RES_402 | m78[33D5] |
| | PP1480 | PROBEPOINT_SM | m78[7A6] | | HN_SOT-23 | | R2409 | RES_402 | m78[24C6] | R3303 | RES_402 | m78[33D5] |
| | PP1481 | PROBEPOINT_SM | m78[7A6] | Q7660 | TRA_MOSFET_NCHN_5P1_ | m78[76C3] | R2413 | RES_402 | m78[24C3] | R3304 | RES_402 | m78[33C5] |

117

| 8 | | | 7 | | | 6 | | | 5 | | | 4 | | | 3 | | | 2 | | | 1 | | | | | | |
|-------|---------|-----------|-----------|----------|-----------|-----------|---------|-----------|-----------|--------------|----------------|----------------|--------------------|--------------------|----------------|----------------------|----------------------|----------------|-------|----------------------|----------------|-------|----------------------|-----------|-------|----------------------|-----------|
| D | R4950 | RES_402 | m78[49C4] | R7032 | RES_402 | m78[70C3] | R7630 | RES_402 | m78[76A7] | U2300 | SB_ICH8M_BGA | m78[23D5] | U2300 | SB_ICH8M_BGA | m78[24B7 24D4] | U2300 | SB_ICH8M_BGA | m78[25D4] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] |
| | R4951 | RES_402 | m78[49C4] | R7033 | RES_402 | m78[70C3] | R7631 | RES_402 | m78[76A7] | U2300 | SB_ICH8M_BGA | m78[24B7 24D4] | U2300 | SB_ICH8M_BGA | m78[25D4] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | |
| | R4998 | RES_402 | m78[49C2] | R7034 | RES_402 | m78[70D3] | R7661 | RES_402 | m78[76C2] | U2300 | SB_ICH8M_BGA | m78[25D4] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | |
| | R4999 | RES_402 | m78[49D4] | R7035 | RES_402 | m78[70B3] | R7664 | RES_402 | m78[76C3] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | |
| | R5000 | RES_402 | m78[50D6] | R7036 | RES_402 | m78[70B3] | R7665 | RES_402 | m78[76B4] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | |
| | R5010 | RES_402 | m78[50C6] | R7037 | RES_402 | m78[70B3] | R7666 | RES_402 | m78[76C2] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | |
| | R5032 | RES_402 | m78[50B1] | R7038 | RES_402 | m78[70B3] | R7667 | RES_402 | m78[76B2] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | |
| | R5033 | RES_402 | m78[50B1] | R7039 | RES_402 | m78[70C3] | R7668 | RES_402 | m78[76B2] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | |
| | R5034 | RES_402 | m78[50B1] | R7040 | RES_402 | m78[70C7] | R7669 | RES_402 | m78[76C2] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | |
| | R5035 | RES_402 | m78[50B1] | R7041 | RES_402 | m78[70B7] | R7670 | RES_402 | m78[76C4] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | |
| R5036 | RES_402 | m78[50B1] | R7060 | RES_402 | m78[70A7] | R7692 | RES_402 | m78[76A6] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5037 | RES_402 | m78[50B1] | R7061 | RES_402 | m78[70A6] | R7700 | RES_402 | m78[77C6] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5038 | RES_402 | m78[50B1] | R7062 | RES_402 | m78[70A6] | R7701 | RES_402 | m78[77C5] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5039 | RES_402 | m78[50B1] | R7063 | RES_402 | m78[70B6] | R7702 | RES_402 | m78[77B5] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5040 | RES_402 | m78[50B1] | R7064 | RES_402 | m78[70B6] | R7703 | RES_402 | m78[77B3] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5041 | RES_402 | m78[50B1] | R7065 | RES_402 | m78[70C6] | R7704 | RES_402 | m78[77B3] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5042 | RES_402 | m78[50B1] | R7066 | RES_402 | m78[70C6] | R7705 | RES_402 | m78[77B2] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5043 | RES_402 | m78[50B1] | R7070 | RES_402 | m78[70C7] | R7710 | RES_402 | m78[77D6] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5046 | RES_402 | m78[50A1] | R7080 | RES_402 | m78[70D3] | R7711 | RES_402 | m78[77D6] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5047 | RES_402 | m78[50B1] | R7081 | RES_402 | m78[70D3] | R7712 | RES_402 | m78[77D4] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5048 | RES_402 | m78[50A1] | R7092 | RES_402 | m78[70B3] | R7713 | RES_402 | m78[77C4] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5050 | RES_402 | m78[50B6] | R7100 | RES_402 | m78[71C2] | R7800 | RES_402 | m78[78D5] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5051 | RES_402 | m78[50B7] | R7101 | RES_603 | m78[71C2] | R7801 | RES_402 | m78[78D5] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5052 | RES_402 | m78[50A7] | R7102 | RES_1206 | m78[71B3] | R7810 | RES_402 | m78[78D8] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5053 | RES_402 | m78[50A6] | R7103 | RES_1206 | m78[71D3] | R7811 | RES_402 | m78[78D7] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5055 | RES_402 | m78[50A3] | R7104 | RES_402 | m78[71C1] | R7850 | RES_402 | m78[78C5] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5056 | RES_402 | m78[50A3] | R7105 | RES_402 | m78[71B2] | R7851 | RES_402 | m78[78C5] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5057 | RES_402 | m78[50A6] | R7106 | RES_603 | m78[71B2] | R7870 | RES_402 | m78[78B7] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5058 | RES_402 | m78[50A5] | R7107 | RES_402 | m78[71B1] | R7871 | RES_402 | m78[78B7] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5059 | RES_402 | m78[50A4] | R7108 | RES_402 | m78[71C8] | R7888 | RES_402 | m78[78C1] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5070 | RES_402 | m78[50D2] | R7109 | RES_402 | m78[71B7] | R7889 | RES_402 | m78[78C2] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5071 | RES_402 | m78[50D3] | R7110 | RES_402 | m78[71B7] | R7891 | RES_402 | m78[78D3] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5078 | RES_402 | m78[50D1] | R7111 | RES_402 | m78[71B8] | R7892 | RES_402 | m78[78D2] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5080 | RES_402 | m78[50B1] | R7112 | RES_402 | m78[71D7] | R7893 | RES_402 | m78[78D3] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5082 | RES_402 | m78[50B1] | R7114 | RES_402 | m78[71B7] | R7894 | RES_805 | m78[78D1] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5083 | RES_402 | m78[50A1] | R7115 | RES_402 | m78[71B4] | R7895 | RES_402 | m78[78A7] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5084 | RES_402 | m78[50A1] | R7116 | RES_402 | m78[71B4] | R7896 | RES_402 | m78[78A6] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5086 | RES_402 | m78[50A1] | R7117 | RES_402 | m78[71B5] | R7897 | RES_402 | m78[78B6] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5087 | RES_402 | m78[50B1] | R7118 | RES_402 | m78[71B5] | R7898 | RES_402 | m78[78B6] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5088 | RES_402 | m78[50A1] | R7119 | RES_402 | m78[71C8] | R8500 | RES_402 | m78[85C7] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5090 | RES_402 | m78[50B1] | R7120 | RES_402 | m78[71D7] | R8501 | RES_402 | m78[85C5] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5091 | RES_402 | m78[50B1] | R7121 | RES_402 | m78[71D7] | R8502 | RES_402 | m78[85C7] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5092 | RES_402 | m78[50B1] | R7122 | RES_402 | m78[71A4] | R8503 | RES_402 | m78[85A4] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5093 | RES_402 | m78[50B1] | R7123 | RES_402 | m78[71A4] | R8505 | RES_402 | m78[85B4] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5094 | RES_402 | m78[50B1] | R7126 | RES_402 | m78[71C8] | R8570 | RES_402 | m78[85D3] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5096 | RES_402 | m78[50B1] | R7127 | RES_402 | m78[71C7] | R9000 | RES_402 | m78[90C8] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5190 | RES_402 | m78[51B2] | R7130 | RES_402 | m78[71B4] | R9001 | RES_402 | m78[90C7] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5191 | RES_402 | m78[51C3] | R7131 | RES_402 | m78[71B4] | R9002 | RES_805 | m78[90C8] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5192 | RES_402 | m78[51C4] | R7140 | RES_603 | m78[71B1] | R9003 | RES_805 | m78[90C8] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |
| R5200 | RES_402 | m78[52D7] | R7141 | RES_603 | m78[71C1] | R9070 | RES_402 | m78[90B7] | U2300 | SB_ICH8M_BGA | m78[26D5 26D8] | U2803 | MC74VHC1G00_SCT0-5 | m78[28A7] | U2900 | CLK_SYN_SLG8LP537_QF | m78[29C5] | | | | | | | | | | |