

NOTES:

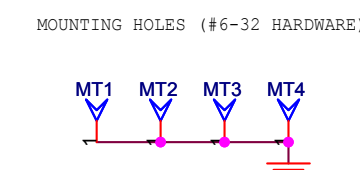
1. USE 101/0112 ~ 04 PCB.

2. CAUTION:
CONTAINS PARTS AND ASSEMBLIES SUSCEPTIBLE
TO DAMAGE BY ELECTROSTATIC DISCHARGE (ESD)

| | | | |
|---|--|--|--|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS AND TOLERANCES ARE IN INCHES AND APPLY TO THE FINISHED PART TOLERANCES ARE: FRACTIONS DECIMALS ± .XX ± .01 ± .XXX ± .005 DO NOT SCALE DRAWING | | CONTRACT NO. | |
| DRAWN R.Marroquin | | DATE 2/16/07 | |
| ENGINEER | | DATE | |
| CHECKED | | DATE | |
| APPROVED | | DATE | |
| ISSUED | | DATE | |
| MATERIAL | | SCALE: NONE | |
| FINISH | | DATE Friday, February 23, 2007 | |
| SIMILAR TO | | MARKING SYMBOL | |

| | | | |
|-----------------------------|--|--|--|
| DRAWN R.Marroquin | | DATE 2/16/07 | |
| ENGINEER | | DATE | |
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| SIMILAR TO | | MARKING SYMBOL | |

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|---|-----------|--|------------------|
| Peregrine Semiconductor 9450 Carroll Park Drive, Suite 100 San Diego, CA 92121 | | | |
| DSA 50 Ohm MLP20 4X4 EK | | | |
| SIZE B | CAGE CODE | DWG NO. 102/0144 | REV 04 |
| SCALE: NONE | | DATE Friday, February 23, 2007 | |
| | | | Sheet 1 of 1 |



PEREGRINE SEMICONDUCTOR CORPORATION
 DSA 50 Ohm MLP20 4X4 EK Revised: Friday, February 23, 2007
 Bill Of Materials

| Item | Quantity | Reference | Value | Description | Manufacturer | Manufacturer Part Number | Distributor | Distributor Part Number | Data Sheet | Notes |
|------|----------|--|-------------|--|--|--------------------------|--------------------|-------------------------|---|-------------------------------------|
| 1 | 3 | CA1,CA2,CA3 | 100pF | PAN Chip Capacitor Array, 100pF, 25V, ±10%, 1206 | Panasonic - ECG | EZA-SCE101M | Digi-Key | P10194CT-ND | http://www.panasonic.com/industrial/components/pdf/AEH0000CE4.pdf | |
| 2 | 1 | C11 | DNI | PAN SMD Capacitor, Ceramic, 0805 | Panasonic - ECG | | Digi-Key | | | |
| 3 | 2 | C13,C17 | 100pF | PAN SMD Capacitor, Ceramic, 100pF, 50V, NP0, ±5%, 0603 | Panasonic - ECG | ECJ-1VC1H101J | Digi-Key | PCC101ACVTR-ND | http://www.panasonic.com/industrial/components/pdf/abj0000ce1.pdf | |
| 4 | 2 | C16,C18 | 0.1µF | PAN SMD Capacitor, Ceramic, 0.1µF, 50V, X7R, ±10%, 0805 | Panasonic - ECG | ECJ-2YB1H104K | Digi-Key | PCC1840TR-ND | http://www.panasonic.com/industrial_oem/electronic_components/pdf/ecu_ecl.pdf | |
| 5 | 1 | C19 | DNI | PAN SMD Capacitor, Ceramic, 0603 | Panasonic - ECG | | Digi-Key | | | |
| 6 | 12 | D1,D2,D3,D4,D5,D6,D7,D8, D9,D10,D11,D12 | 2.7V | PAN Diode Zenner, 2.7V 150MW, 200mA, S-MINI 2P | Panasonic - SSG | MAZ80270HL | Digi-Key | MAZ80270HLC-ND | http://www.semicon.panasonic.co.jp/ds/eng/SKE00007CED.pdf | |
| 7 | 1 | J1 | HEADER 26 | CONN HEADER, .100 DUAL STR 72POS | Sullins Electronics Corp. | PZC36DABN | Digi-Key | S2021-36-ND | http://rocky.digikey.com/WebLib/Sullins/Web%20Data/PZC36DABN.pdf | Cut to 26 Pin Header .100 |
| 8 | 2 | J2,J3 | DNI | 75 Ohm F-Style Connector, Female Jack, Side Launch, 0.060"-0.064" Thickness | Trompeter Electronics | CBJE130-1 | | | | |
| 9 | 2 | J4,J5 | SMASM | SMA 500 END LAUNCH JACK RECEPTACLE-ROUND CONTACT | Johnson Components Inc. | 142-0701-801 | Digi-Key | J502-ND | http://rocky.digikey.com/WebLib/Johnson%20Components/Web%20Data/142-0701-801.%20142-0701-806.pdf | |
| 10 | 1 | J6 | CON2 | CONN HEADER, .100 SINGLE STR 36POS | Sullins Electronics Corp. | PZC36SAAN | Digi-Key | S1011-36-ND | http://rocky.digikey.com/WebLib/Sullins/Web%20Data/PZC36SAAN.PDF | Cut to 2 Pin Header .100 |
| 11 | 2 | J7,J8 | CON3 | CONN HEADER, .100 SINGLE STR 36POS | Sullins Electronics Corp. | PZC36SAAN | Digi-Key | S1011-36-ND | http://rocky.digikey.com/WebLib/Sullins/Web%20Data/PZC36SAAN.PDF | Cut to 3 Pin Header .100 |
| 12 | 1 | J9 | HEADER 4 | CONN HEADER, W/ FRIC LCK, 4POS, .100 VERT TIN | Molex/Waldom Electronics Corp. | 22-23-2041 | Digi-Key | WM4202-ND | http://www.molex.com/product/pcb/6373.pdf | |
| 13 | 2 | J10,J11 | DNI | SMA 500 END LAUNCH JACK RECEPTACLE-ROUND CONTACT | Johnson Components Inc. | 142-0701-801 | Digi-Key | J502-ND | http://rocky.digikey.com/WebLib/Johnson%20Components/Web%20Data/142-0701-801.%20142-0701-806.pdf | DO NOT INSTALL |
| 14 | 4 | MT1,MT2,MT3,MT4 | MTG HOLE | | | | | | | |
| 15 | 2 | RN1,RN2 | 220 | CTS Thick Film Chip Resistor Chip Array 16TRM, 8RES, 220 Ohm, 50V, 742, 0.063W, ±5%, 0603 | CTS Corporation Resistor/Electrocomponents | 742C163221JTR | Digi-Key | 742C163221JTR-ND | http://rocky.digikey.com/WebLib/CTS/Web%20Data/741-746%20Series.pdf | |
| 16 | 1 | RN3 | 470 | CTS Thick Film Chip Resistor Chip Array 16TRM, 8RES, 470 Ohm, 50V, 742, 0.0625W, ±5%, 0603 | CTS Corporation Resistor/Electrocomponents | 742C163471JPTR | Digi-Key | 742C163471JPTR-ND | http://www.ciscorp.com/components/Datasheets/CTSChipArrayDs.pdf | |
| 17 | 1 | RN4 | 10K | Bourns Resistor Network 10TRM, 9RES, 10K, 100V, 0.30W, ±2%, SIP10 | Bourns Inc. | 4610X-101-103 | Digi-Key | 4610X-1-103-ND | http://www.bourns.com/pdf/4600X.pdf | |
| 18 | 2 | R1,R2 | DNI | PAN SMD Resistor, Thick Film, 0603 | Panasonic - ECG | | Digi-Key | | | |
| 19 | 2 | R3,R8 | 10K | PAN SMD Resistor, Thick Film, 10K, 1/16W, ±5%, RoHS, 0402 | Panasonic - ECG | ERJ-2GE1J03X | Digi-Key | P10KJTR-ND | http://www.panasonic.com/industrial/components/pdf/AOA0000CE1.pdf | |
| 20 | 1 | R5 | 0 OHM | Xicon SMD Thick Film Chip Resistor, 0 Ohm, 1/16W, ±5%, RoHS, 0603 | Xicon | 301-0-RC | Mouser Electronics | 301-0-RC | http://www.mouser.com/catalog/specsheets/XC-600033.pdf | |
| 21 | 2 | R6,R7 | 0 OHM | PAN SMD Thick Film Chip Resistor, 0 Ohm, 1/16W, ±5%, RoHS, 0402 | Panasonic - ECG | ERJ-2GE0R00X | Digi-Key | P0.0UTR-ND | http://www.panasonic.com/industrial/components/pdf/AOA0000CE1.pdf | |
| 22 | 2 | R10,R11 | 470 Ohm | PAN SMD Resistor, Thick Film, 470 Ohm, 1/16W, ±5%, 0603 | Panasonic - ECG | ERA-V15J471V | Digi-Key | P470CFCT-ND | http://www.panasonic.com/industrial/components/pdf/AOF0000CE1.pdf | |
| 23 | 3 | R12,R13,R17 | 10K | Xicon SMD Thick Film Chip Resistor, 10K Ohm, 1/16W, ±5%, RoHS, 0603 | Xicon | 301-10K-RC | Mouser Electronics | 301-10K-RC | http://www.mouser.com/catalog/specsheets/XC-600033.pdf | |
| 24 | 1 | SW1 | 106-1208-EV | Mountain Switch, SPST, DIP SW 8 POS, NS 100mA/50VDC, S 50mA/24VDC, RoHS | Mountain Switch | 106-1208-EV | Mouser Electronics | 106-1208-EV | http://www.mouser.com/catalog/specsheets/MS-100583.pdf | |
| 25 | 1 | U1 | MLPQ4X4 | | | | | | | U1 can be PE4302, PE4305, or PE4306 |
| 26 | 1 | 101/0112~04 | | DSA MLP20 EK 430X | | | | | | |

102/0144 Revision: 04