



NOTES:

1. USE 101-0112-04 PCB.
2. CAUTION: CONTAINS PARTS AND ASSEMBLIES SUSCEPTIBLE TO DAMAGE BY ELECTROSTATIC DISCHARGE (ESD)
3. BE SURE TO UPDATE ALL SHEETS IN THIS SCHEMATIC DOCUMENT.
4. REFER TO SHEET 2 FOR THE PE43404 EVK BUILD SCHEMATIC.
5. USE SHEET 1 FOR PE4304, PE4307, PE4308 AND PE43404 EVK SCHEMATIC ON PSEMI WEB PAGE.

UNLESS OTHERWISE SPECIFIED DIMENSIONS AND TOLERANCES ARE IN INCHES AND APPLY TO THE FINISHED PART TOLERANCES ARE: FRACTIONS: DECIMALS: .xxx + .005 .xxx ± .01		CONTRACT NO.		PEREGRINE SEMICONDUCTOR	
DO NOT SCALE DRAWING		DRAWN: JEFF LUNDY	DATE: 5-23-08	9380 Carroll Park Drive San Diego, CA 92121	
MATERIAL:		ENGINEER: SHAWN BAWELL	DATE: 5-23-08	DSA 75 Ohm MLP20 4X4 EK	
FINISH:		CHECKED:	DATE:	SIZE:	CAGE CODE:
SIMILAR TO:		APPROVED:	DATE:	DWG NO.:	REV:
MARKING SYMBOL:		ISSUED:	DATE:	SCALE:	DATE:
				102-0142	05
				Sheet 1 of 6	

Item	Qty	Reference	Value	Description	Manufacturer	Manufacturer Part Number	Distributor	Distributor Part Number	Data Sheet	Notes
1	3	CA1-3	CAPCAF, EZASC-10, 0.100pF ±10%	PAN Chip Capacitor Array, 100pF, 28V, ±10%, 1206	Panasonic - ECG		Digi-Key	P1019ACT-ND	http://www.panasonic.com/industrial/components/pdf/AE4000CE4.pdf	
2	2	C18 C18	CAP NP 0.1uF ±10%	PAN SMD Capacitor, Ceramic, 0.1uF, 50V, X7R, ±10%, 0805	Panasonic - ECG		Digi-Key	PCC1840TR-ND	http://www.panasonic.com/industrial/electronic_components/pdf/eca_eci.pdf	
3	2	C13 C17	CAP NP, 100pF, ±5%	PAN SMD Capacitor, Ceramic, 100pF, 50V, NP0, ±5%, 0603	Panasonic - ECG		Digi-Key	PCC101ACVTR-ND	http://www.panasonic.com/industrial/components/pdf/abj0000ca1.pdf	
4	1	C11	CAP NP DNI	PAN SMD Capacitor, Ceramic, 0605	Panasonic - ECG		Digi-Key			
5	1	C19	CAP NP DNI	PAN SMD Capacitor, Ceramic, 0603	Panasonic - ECG		Digi-Key			
6	1	J8	CON2, CON2	CONN HEADER, 100 SINGLE STR 36POS	Sullins Electronics Corp.		Digi-Key	S1011-36-ND	http://rocky.digikey.com/WebLib/Sullins/Web%20Data/PZC36SAAN.PDF	Cut to 2 Pin Header, 100
7	2	J7-8	CON3, CON3	CONN HEADER, 100 SINGLE STR 36POS	Sullins Electronics Corp.		Digi-Key	S1011-36-ND	http://rocky.digikey.com/WebLib/Sullins/Web%20Data/PZC36SAAN.PDF	Cut to 3 Pin Header, 100
8	12	D1-12	DIO, MAZ8020HL, 2.7V	PAN Diode Zener, 2.7V, 150mW, 200mA, S-MINI 2P	Panasonic - SSG		Digi-Key	MAZ8020HLCT-ND	http://www.semicon.panasonic.co.jp/eng/SKE00007CED.pdf	
9	1	J9	HEADER 4, HEADER 4	CONN HEADER, W/ FRIC LCK, 4PCS, 100 VERT TIN	Molex/Walson Electronics Corp.		Digi-Key	WMA202-ND	http://www.molex.com/products/pdfs/373.pdf	
10	1	U1	MLPQ4X4-20M 7, MLPQ4X4							U1 can be PE4304, PE4307, or PE4308
11	3	R1-2 R5	R, 0 OHM, ±5%	Xicon SMD Thick Film Chip Resistor, 0 Ohm, 1/16W, ±5%, RoHS, 0603	Xicon		Mouser Electronics	301-D-RC	http://www.mouser.com/catalog/specsheets/XC-600033.pdf	
12	2	R3 R8	R, 10K, ±5%	PAN SMD Resistor, Thick Film, 10K, 1/16W, ±5%, RoHS, 0402	Panasonic - ECG		Digi-Key	P10K1TR-ND	http://www.panasonic.com/industrial/components/pdf/AO4000CE1.pdf	
13	3	R12-13 R17	R, 10K, ±5%	Xicon SMD Thick Film Chip Resistor, 10K Ohm, 1/16W, ±5%, RoHS, 0603	Xicon		Mouser Electronics	301-10K-RC	http://www.mouser.com/catalog/specsheets/XC-600033.pdf	
14	2	R10-11	R, 470 Ohm, ±5%	PAN SMD Resistor, Thick Film, 470 Ohm, 1/16W, ±5%, 0603	Panasonic - ECG		Digi-Key	P470CFCT-ND	http://www.panasonic.com/industrial/components/pdf/AOF0000CE1.pdf	
15	2	R6-7	R, DNI	PAN SMD Resistor, Thick Film, 0402	Panasonic - ECG		Digi-Key			
16	2	RH1-2	RESCAV, 742C163-16-2, 220, ±5%	CTS Thick Film Chip Resistor Chip Array, 16TRM, 8RES, 220 Ohm, 50V, 742, 0.063W, ±5%, 0603	CTS Corporation Resistor/Electrocomponents		Digi-Key	742C163221JTR-ND	http://rocky.digikey.com/WebLib/CTS/Web%20Data/741-746%20Series.pdf	
17	1	RH3	RESCAV, 742C163-16-2, 470, ±5%	CTS Thick Film Chip Resistor Chip Array, 16TRM, 8RES, 470 Ohm, 50V, 742, 0.0625W, ±5%, 0603	CTS Corporation Resistor/Electrocomponents		Digi-Key	742C163471JPTTR-ND	http://www.ctscorp.com/components/Datasheets/CTSChipArrayDs.pdf	
18	1	RM4	SIP10, 10K, ±2%	Bourns Resistor Network, 10TRM, 8RES, 10K, 100V, 0.30W, ±2%, SIP10	Bourns Inc.		Digi-Key	4610X-1-103-ND	http://www.bourns.com/pdf/4600X.pdf	
19	2	J2-3	SMA CONNECTOR, (SIDE MOUNT) GB, IE130-1	75 Ohm P-Syle Connector, Female Jack Side Launch, 0.060-0.064" Thickness	Trumpeter Electronics				http://www.trumpeter.com	
20	4	J4-5, J10-11	SMA CONNECTOR, (SIDE MOUNT) DNI	SMA 500 END LAUNCH JACK RECEPTACLE-ROUND CONTACT	Johnson Components Inc.		Digi-Key	J502-ND	http://rocky.digikey.com/WebLib/Johnson%20Components/Web%20Data/142-0701-801%20142-0701-806.pdf	DO NOT INSTALL
21	1	J1	SUB_D IDC/MATE26, 1, HEADER 26	CONN HEADER, 100 DUAL STR 72POS	Sullins Electronics Corp.		Digi-Key	S2021-36-ND	http://rocky.digikey.com/WebLib/Sullins/Web%20Data/PZC36DABN.pdf	Cut to 26 Pin Header, 100
22	1	ISW1	SW, 106-1208-EV, 106-1208-EV	Mountain Switch, SPST, DIP SW 8 POS, NS 100mA/50VDC, S 50mA/24VDC, RoHS	Mountain Switch		Mouser Electronics	106-1208-EV	http://www.mouser.com/catalog/specsheets/MS-100583.pdf	
23	4	M11-4	TEST POINT MTO HOLE							
24	1	J101-0112-04	PCB, DSA 75 OHM MLP20 4X4 EK							
25	1	R18	R, 0 OHM, ±5% FOR PE43404	Xicon SMD Thick Film Chip Resistor, 0 Ohm, 1/16W, ±5%, RoHS, 0603	Xicon	FOR PE43404	Mouser Electronics	301-D-RC	http://www.mouser.com/catalog/specsheets/XC-600033.pdf	FOR PE43404

NOTE 1:
FOR PE43404 SCHEMATIC (SEE FOLLOWING SHEET) THERE IS AN ADDITION OF A 0 OHM RESISTOR. LINE ITEM 25 IS USED ONLY FOR THE PE43404 SCHEMATIC.