

Filename: PMP4507\_REVB\_SCH\_bom.xls

Date: 01/30/2009

**PMP4507\_REVB\_SCH BOM Vout=3.3V@3A**

COUNT	RefDes	Value	Description	Size	Part Number	MFR	AREA
4	C1	0.01uF	Capacitor, Ceramic, 100V, X7R, 10%	0603	Std	Std	
	C2	0.01uF	Capacitor, Ceramic, 100V, X7R, 10%	0603	Std	Std	
	C3	0.01uF	Capacitor, Ceramic, 100V, X7R, 10%	0603	Std	Std	
	C4	0.01uF	Capacitor, Ceramic, 100V, X7R, 10%	0603	Std	Std	
1	C5	1000pF	Capacitor, Ceramic, 2kV, X7R 10%	1808	C4520X7R3D102K	TDK	
1	C6	2200pF	Capacitor, Ceramic, 2kV, X7R, 20%	1812	C4532X7R3D222K	TDK	
1	C7	2200pF	Capacitor, Ceramic, 100V, X7R, 10%	0805	Std	Std	
1	C8	22uF	Capacitor, Aluminum, 100V, 20%	8x10.2mm	EEVFK2A220P	Panasonic	
2	C9	1uF	Capacitor, Ceramic, 100V, X7R, 10%	1210	Std	Std	
	C10	1uF	Capacitor, Ceramic, 100V, X7R, 10%	1210	Std	Std	
1	C11	0.01uF	Capacitor, Ceramic, 100V, X7R, 10%	1210	Std	Std	
1	C14	330uF	Capacitor, Aluminum, 6.3V, ±20%	0.260 x 0.276 inch	EEVFK0J331XP	Panasonic	
1	C15	0.22uF	Capacitor, Ceramic, 25V, X7R, 10%	0805	Std	Std	
1	C16	10uF	Capacitor, Aluminum, 25V, ±20%	0.200 x 0.210 inch	EEVFK1E100R	Panasonic	
1	C17	220pF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	
1	C18	560pF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	
1	C19	2.2nF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	
2	C20	0.1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	
1	C21	47nF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	
	C22	0.1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	
1	C23	0.1uF	Capacitor, Ceramic, 100V, X7R, 10%	1210	Std	Std	
1	C24	1nF	Capacitor, Ceramic, 100V, X7R, 10%	0805	Std	Std	
1	C25	330pF	Capacitor, Ceramic, 200V, X7R, 10%	0805	Std	Std	
1	C26	1nF	Capacitor, Ceramic, 100V, X7R, 10%	0805	Std	Std	
1	CL1	NA	Current Loop, 0.025 holes	0.120 X 0.075 inch	NA	NA	
1	D1	1SMA10CAT3	Diode, TVS, 58-V, 400W	SMA	1SMA10CAT3 Series	On Semi	
2	D2	HD01-T	Bridge Rectifier, 100V, 0.8A, Glass Passivated, §MINI DIP4		HD01-T	Diodes, Inc	
	D3	HD01-T	Bridge Rectifier, 100V, 0.8A, Glass Passivated, §MINI DIP4		HD01-T	Diodes, Inc	
1	D5	MURA120	Diode, Rectifier, 1A, 200V	SMA	MURA120	On Semi	
2	D6	BZT52C15S	Diode, Zener, 200mW, 15V	SOD-323	MM3Z2V4ST1	On Semi	
	D7	BZT52C15S	Diode, Zener, 200mW, 15V	SOD-323	MM3Z2V4ST1	On Semi	
	D8	MURA120	Diode, Rectifier, 1A, 200V	SMA	MURA120	On Semi	
1	D9	RED	Diode, LED, RED, 2.0-V, 850-mcd,SM	1210	LTST-C930KRKT	LITE-ON INC	
1	D10	BAS16	Diode, Switching, 200mA, 75V, 225mW	SOT-23	BAS16LT1	On Semi	
1	D12	BAV99	Diode, Dual Ultra Fast, Series, 200-mA, 70-V	SOT23	BAV99	Fairchild	
	D13	MURA120	Diode, Rectifier, 1A, 200V	SMA	MURA120	On Semi	

	D14	MURA120	Diode, Rectifier, 1A, 200V	SMA	MURA120	On Semi
2	FB1	15-Ohms	Bead, Ferrite, SMT, 15-Ohms, 1500mA	0805	MMZ2012R150A	Steward
	FB2	15-Ohms	Bead, Ferrite, SMT, 15-Ohms, 1500mA	0805	MMZ2012R150A	Steward
2	J1	5520252-4	Connector, Jack, Modular, 8 POS	0.705 x 0.820	5520252-4	AMP
	J2	5520252-4	Connector, Jack, Modular, 8 POS	0.705 x 0.820	5520252-4	AMP
1	J3	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST
2	J4	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	
	J6	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	
1	L1	10uH	Inductor, SMT, 1.1A, 120milliohm	4.45x6.6mm	SRR0603-100ML	Bourns
1	L2	1.0uH	Inductor, SMT, 1.0-uH, 7.5-A, 7-milliohm	0.51x0.37	SDR1005-1R0ML	Bourns
1	Q1	IRF8113	MOSFET, N-ch, 30-V, 17.2-A, 5.6-milliOhms	SO8	IRF8113	IR
1	Q2	SI4848DY	MOSFET, N-ch, 150-V, 3.7-A, 85-milliOhms	SO8	SI4848DY	VISHAY SILICONIX
4	R1	75	Resistor, Chip, 1/16W, 5%	0603	Std	Std
	R2	75	Resistor, Chip, 1/16W, 5%	0603	Std	Std
	R3	75	Resistor, Chip, 1/16W, 5%	0603	Std	Std
	R4	75	Resistor, Chip, 1/16W, 5%	0603	Std	Std
1	R5	10	Resistor, Chip, 1/2W, 5%	2010	Std	Std
1	R6	160K	Resistor, Chip, 1/10W, 5%	0805	Std	Std
1	R7	24.9K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R8	1K	Resistor, Chip, 1/10-W, 5%	0805	Std	Std
1	R9	49.9	Resistor, Chip, 1/8W, 1%	0805	Std	Std
1	R10	118K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R11	162K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R12	1.27K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R13	24.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R14	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R15	4.7	Resistor, Chip, 1/16W, 5%	0603	Std	Std
1	R16	10K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R17	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R18	0.39	Resistor, Chip, 1/2W, 1%	2010	Std	Std
1	R19	41.2K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R20	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R21	20K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R22	422	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R23	2K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R24	24.3K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R25	79	Resistor, Chip, 1/2W, 5%	2010	Std	Std
1	R26	392K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R27	39.2K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R28	348	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	T1	H2019	Xfmr, Center-tapped, Voice Over IP	0.500 x 0.370	H2019	Pulse
1	T2	HA3801-AL	Transformer, PoE 13W, Triple Secondary, 165uH	0.875 x 0.675	HA3801-AL	Coilcraft

9	TP1	5010	Test Point, Red, Thru Hole	0.125 x 0.125 inch	5010	Keystone
4	TP2	5013	Test Point, Orange, Thru Hole	0.125 x 0.125 inch	5013	Keystone
	TP3	5013	Test Point, Orange, Thru Hole	0.125 x 0.125 inch	5013	Keystone
	TP4	5010	Test Point, Red, Thru Hole	0.125 x 0.125 inch	5010	Keystone
	TP5	5010	Test Point, Red, Thru Hole	0.125 x 0.125 inch	5010	Keystone
8	TP6	5012	Test Point, White, Thru Hole	0.125 x 0.125 inch	5012	Keystone
9	TP7	5011	Test Point, Black, Thru Hole	0.125 x 0.125 inch	5011	Keystone
	TP8	5010	Test Point, Red, Thru Hole	0.125 x 0.125 inch	5010	Keystone
	TP9	5011	Test Point, Black, Thru Hole	0.125 x 0.125 inch	5011	Keystone
	TP10	5010	Test Point, Red, Thru Hole	0.125 x 0.125 inch	5010	Keystone
	TP11	5010	Test Point, Red, Thru Hole	0.125 x 0.125 inch	5010	Keystone
	TP12	5011	Test Point, Black, Thru Hole	0.125 x 0.125 inch	5011	Keystone
	TP13	5012	Test Point, White, Thru Hole	0.125 x 0.125 inch	5012	Keystone
	TP14	5010	Test Point, Red, Thru Hole	0.125 x 0.125 inch	5010	Keystone
	TP15	5013	Test Point, Orange, Thru Hole	0.125 x 0.125 inch	5013	Keystone
	TP17	5010	Test Point, Red, Thru Hole	0.125 x 0.125 inch	5010	Keystone
	TP19	5012	Test Point, White, Thru Hole	0.125 x 0.125 inch	5012	Keystone
	TP20	5013	Test Point, Orange, Thru Hole	0.125 x 0.125 inch	5013	Keystone
	TP21	5012	Test Point, White, Thru Hole	0.125 x 0.125 inch	5012	Keystone
	TP23	5012	Test Point, White, Thru Hole	0.125 x 0.125 inch	5012	Keystone
	TP24	5012	Test Point, White, Thru Hole	0.125 x 0.125 inch	5012	Keystone
	TP25	5011	Test Point, Black, Thru Hole	0.125 x 0.125 inch	5011	Keystone
	TP26	5012	Test Point, White, Thru Hole	0.125 x 0.125 inch	5012	Keystone
	TP27	5010	Test Point, Red, Thru Hole	0.125 x 0.125 inch	5010	Keystone
	TP28	5012	Test Point, White, Thru Hole	0.125 x 0.125 inch	5012	Keystone
	TP29	5011	Test Point, Black, Thru Hole	0.125 x 0.125 inch	5011	Keystone
	TP30	5011	Test Point, Black, Thru Hole	0.125 x 0.125 inch	5011	Keystone
	TP31	5011	Test Point, Black, Thru Hole	0.125 x 0.125 inch	5011	Keystone
	TP32	5011	Test Point, Black, Thru Hole	0.125 x 0.125 inch	5011	Keystone
	TP33	5011	Test Point, Black, Thru Hole	0.125 x 0.125 inch	5011	Keystone
1	U1	TPS23753PW	IC, IEEE 802.3af Integrated Primary Side Contro	TSSOP14	TPS23753PW	TI
1	U2	TCMT1107	IC, Photocoupler, 3750VRMS, 80-160% CTR	MF4	TCMT1107	Vishay
1	U3	TLV431ACDBVR	IC, Shunt Regulator, 1.24-V ref, 6-V, 10-mA, 1%	SOT23-5	TLV431ACDBVR	TI

- Notes:
1. These assemblies are ESD sensitive, ESD precautions shall be observed.
  2. These assemblies must be clean and free from flux and all contaminants.  
Use of no clean flux is not acceptable.
  3. These assemblies must comply with workmanship standards IPC-A-610 Class 2.
  4. Ref designators marked with an asterisk (\*\*\*) cannot be substituted.  
All other components can be substituted with equivalent MFG's components.

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