

Filename: PMP2928\_REV\_B\_bom.xls

Date: 09/18/2007

## PMP2928\_REV\_B BOM

COUNT	RefDes	Value	DESCRIPTION	Size	PART NUMBER	MFR	AREA
	C101, C102, C103, C110, C201, C202, C203, C204, C205, C210, C301, C302, C303, C304, C305,						
16	C310	10uF	Capacitor, Ceramic, 16V, X7R, 20%	1206	C3216X7R1C106MTDK		15390
3	C106, C206, C306	open	Std	0603		Capacitor, Ceramic, open Std	
	C107, C112, C113, C207, C212, C213, C307, C312, C313	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K TDK		5650
4	C108, C208, C308, C309	560uF	Capacitor, OS CON, 4V, 13milliohm, [temp], 20%	0.315 inch	STD	Sanyo	108900
	C111, C117, C211, C217, C311, C317	100pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H101K TDK		5650
3	C114, C214, C314	10000pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H102K TDK		5650
3	C115, C215, C315	4.7uF	Capacitor, Ceramic, 16V, X7R, 20%	0603	C1608X7R1C475MTDK		5650
3	C116, C216, C316	3300pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H222K TDK		5650
1	C209	Open	Capacitor, OS CON, 4V, 13milliohm, [temp], 20%	0.315 inch	STD	Sanyo	108900
3	D101, D201, D301	Open	Diode, Schottky, 0.5A, 30V	SOD-123	Open	On Semi	19380
3	J101, J201, J301	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST	75525
1	J102	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST	70125
1	J202	D120/2DS	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	D120/2DS	OST	141600
1	J302	{value}	Terminal Block, 2-pin, 32-A, 9.5mm	0.75 x 0.49 inch	ED1981	OST	
1	L101	6.8uH	Inductor, SMT, 4A, zzmilliohm	0.520 X 0.390 in	DO3316P-682HC	Coilcraft	209,000
1	L201	3.3uH	Inductor, SMT, 22A, zz-milliohm	0.508 x 0.520 in	MPL136-3R3	Delta	307800
1	L301	1.4uH	Inductor, SMT, 26A	0.512 x 0.571 in	PG0277.142NL	Pulse	324000
1	Q101	FDS6982AS	MOSFET, Dual Nch, 30V, 8.6A/6.3 Q2/Q1,	SO8	FDS6982AS	Fairchild	75900
	Q201, Q202, Q301,						
4	Q302	NTD110N02R4	MOSFET, N-ch, 24-V, 110-mA, 4-milliOhms	DPAK	STD	STD	107500
	R101, R108, R109, R201, R208, R209,						
9	R301, R308, R309	0	Resistor, Chip, 3.3 Ohms, 1/16-W, 1%	0603	Std	Std	5650
3	R102, R202, R302	Open	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
3	R103, R203, R303	4.99k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650

3	R104, R204, R304	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
6	R105, R110, R205, R210, R305, R310	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
3	R106, R206, R306	3.09k	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
3	R107, R207, R307	499	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
9	TP101, TP103, TP106, TP201, TP203, TP206, TP301, TP303, TP306	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 ir 5000		Keystone	10
9	TP102, TP104, TP105, TP202, TP204, TP205, TP302, TP304, TP305	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 ir 5001		Keystone	10
3	U101, U201, U301	TPS40190DRC	IC, Low cost synchronous buck controller	DRC10	TPS40190DRC	TI	30400

- 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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