

Filename: PMP9009RevA_Bom.xls
 Variant: 001
 Generated: 6/27/2013 4:33:47 PM
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PSR Flyback with 19-56Vin and 5V/0.6A output

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer	Alternate PartNumber	Alternate Manufacturer
IPC81	1		Printed Circuit Board		PMP9009	Any	-	-
C2, C3	2	2.2uF	CAP, CERM, 2.2uF, 100V, +/-10%, X7R, 1210	1210	GRM32ER72A225KA35L	MuRata		
C4	1	0.1uF	CAP, CERM, 0.1uF, 100V, +/-10%, X7R, 0805	0805	C0805C104K1RACTU	Kemet		
C7	1	100uF	CAP, CERM, 100uF, 6.3V, +/-20%, X5R, 1210	1210	C3225X5R0J107M	TDK		
C8	1	1uF	CAP, CERM, 1uF, 6.3V, +/-10%, X5R, 0603	0603	C1608X5R0J105K	TDK		
C9	1	0.1uF	CAP, CERM, 0.1uF, 25V, +/-10%, X8R, 0603	0603	C1608X8R1E104K	TDK		
C10	1	2200pF	CAP, CERM, 2200pF, 2000V, +/-10%, X7R, 1812	1812	C4532X7R3D222K	TDK		
C12	1	0.1uF	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603	06035C104KAT2A	AVX		
C13	1	4.7uF	CAP, CERM, 4.7uF, 50V, +/-10%, X7R, 1210	1210	GRM32ER71H475KA88L	MuRata		
C101	1	560uF	CAP ALUM 560UF 6.3V 20% RADIAL	RCAP, 8x11.5mm	EEU-FM0J561	Panasonic		
D1	1	40V	Diode, Schottky, 40V, 3A, SMB	SMB	B340B-13-F	Diodes Inc.		
D2	1	0.0875V	Diode, Ultrafast, 200V, 1A, SMA	SMA	MURA120T3G	ON Semiconductor		
D3	1		DIODE SWITCH 200V 200MA SOD323	SOD-323	BAS20HT1G			
Q1	1		MOSFET N-CH 150V 2.3A 6SSOT	SOT-23-6	FDC86244	Fairchild Semiconductor		None
R2	1	39k	RES, 39k ohm, 5%, 0.125W, 0805	0805	CRCW080539K0JNEA	Vishay-Dale		
R3	1	51.1	RES, 51.1 ohm, 1%, 0.1W, 0603	0603	CRCW060351R1FKFA	Vishay-Dale		
R4	1	143k	RES, 143k ohm, 1%, 0.1W, 0603	0603	RC0603FR-07143KL	Yageo America		
R5	1	301k	RES, 301k ohm, 1%, 0.1W, 0603	0603	CRCW0603301KFKFA	Vishay-Dale		
R6	1	806	RES, 806 ohm, 1%, 0.063W, 0402	0402	CRCW0402806RFKED	Vishay-Dale		
R7, R8	2	1.2	RES, 1.2 ohm, 5%, 0.125W, 0805	0805	CRCW08051R20JNEA	Vishay-Dale		
R9	1	26.7k	RES, 26.7k ohm, 1%, 0.1W, 0603	0603	CRCW060326K7FKFA	Vishay-Dale		
T1	1	70 uH	Transformer, Flyback, 70 uH		RLTI-1091	Renco		
TP1, TP2	2	Red	Test Point, TH, Miniature, Red	Keystone5000	5000	Keystone		
TP3, TP4	2	Black	Test Point, TH, Miniature, Black	Keystone5001	5001	Keystone		
U1	1		Constant-Voltage, Constant-Current Controller With Primary-Side Regulation, DBV0006A	DBV0006A	UCC28700DBV	Texas Instruments		None
C1	0	100pF	CAP, CERM, 100pF, 100V, +/-5%, COG/NP0, 0603	0603	C1608C0G2A101J	TDK		
C5, C6	0	100uF	CAP, CERM, 100uF, 6.3V, +/-20%, X5R, 1210	1210	C3225X5R0J107M	TDK		
C11	0	4.7pF	CAP, CERM, 4.7pF, 25V, +/-5%, COG/NP0, 0402	0402	GRM1555C1E4R7CA01D	MuRata		
R1	0	DNP	RES, 0 ohm, 5%, 0.125W, 0805	0805	CRCW08050000Z0EA	Vishay-Dale		
R10	0	DNP	RES, 0 ohm, 5%, 0.063W, 0402	0402	CRCW04020000Z0ED	Vishay-Dale		

Notes:

Unless otherwise noted in the Alternate PartNumber and/or Alternate Manufacturer columns, all parts may be substituted with equivalents.

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