

Date: 06/06/2011

BILL OF MATERIALS - PMP5709RevA - 15.0V @ 0.9A

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
1	C1	4700pF	Capacitor, Ceramic, 2kV, X7R, 10%	1812	Std	Std
1	C2	470pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	C3	220uF	Capacitor, Aluminum, 35V, 20%	0.327 X 0.327 inch	EEEFK1V221P	Panasonic
1	C4	4.7uF	Capacitor, Ceramic, 50V, X7R, 10%	1210	Std	Std
1	C5	4.7uF	Capacitor, Ceramic, 50V, X7R, 10%	1210	Std	Std
1	C6	22nF	Capacitor, Ceramic, 100V, X7R, 10%	0805	Std	Std
1	C7	100uF	Capacitor, Aluminum, 25V, 20%	0.328 x 0.328 inch	EEEFK1E101P	Panasonic
1	C11	100nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	C14	470pF	Capacitor, Ceramic, 50V, X7R, 5%	0603	Std	Std
1	C15	open	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	C16	100nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	C17	220nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	C18	220pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	C19	1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std
1	C20	330nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	C21	open	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	C22	10nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	C23	4.7uF	Capacitor, Ceramic, 16V, X5R, 20%	0805	Std	Std
1	C7_1	10uF	Capacitor, Ceramic, 25V, X7R, 10%	1210	Std	Std
1	C7_2	10uF	Capacitor, Ceramic, 25V, X7R, 10%	1210	Std	Std
1	D1	MBRS3100T3G	Diode, Schottky, 3A, 100V	SMC	MBRS3100T3G	On Semi
1	D2	ES1B	Diode, Super Fast Rectifier, 100V, 1A	0.220 x 0.115 inch	ES1B	Diodes
1	D4	BAV99	Diode, Dual Ultra Fast, 200mA, 70V	SOT23	BAV99	Fairchild
1	J1	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25"	ED1514	OST
1	J2	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST
1	L1	1uH	Inductor, SMT, 60mOhm, 2.9A sat, 1.7A rms	0.35x0.24 inch	LPS4012-102NLC	Coilcraft
1	Q1	FDS3590	MOSFET, N-ch, 80V, 6.5A, 35nC, 40mOhm	SO8	FDS3590	Fairchild
1	R1	1	Resistor, Chip, 1/4W, 1%	1210	Std	Std
1	R2	220	Resistor, Chip 1/4W, 1%	1206	Std	Std
1	R3	10k	Resistor, Chip 1/4W, 5%	1206	Std	Std
1	R5	200k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R6	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R7	open	Resistor, Chip, 1/4W, 1%	1210	Std	Std
1	R8	2.00k	Resistor, Chip, 1/16W, 1%	0603	Std	Std

1	R9	40m	Resistor, Chip, 1/2W, 1%	1210	Std	Std
1	R10	33.2k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R11	2.00k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R12	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R13	1.00k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R14	20.0k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R15	1.00k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R16	19.6k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R17	open	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R18	2.49k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R19	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R20	1.00k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R21	3.92k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	T1	Q4438-BL	Transformer, 60uH, 1:1.2, 0.63A sec.	0.790 x 0.985 inch	Q4438-BL	Coilcraft
1	TP1	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
1	TP2	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
1	TP3	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
1	TP4	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
1	TP7	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
1	TP8	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
1	TP9	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
1	TP10	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
1	TP48	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone
1	U1	TPS40210DGS	IC, Low Cost Non-Synchronous Boost Controller	DGS10	TPS40210DGS	Texas Instruments
1	U2	TCMT1107	IC, Photocoupler, CTR 80%-160%	MF4	TCMT1107	Vishay
1	U3	TL431A	IC, Precision Adjustable Shunt Regulator	SOT23-3	TL431AIDBZ	Texas Instruments

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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