

Filename: PMP4651_bom.xls

Date: 09/23/2009

PMP4651 BOM

COUNT	RefDes	Value	Description	SIZE	Part Number	MFR	AREA
2	C1	10uF	Capacitor, Ceramic, 10-uF, 25-V, X5R, 20%	1206	ECJ-3YB1E106M	Panasonic	15390
1	C2	330p	Capacitor, Ceramic, 220pF, 100-V, [temp], [tol]	0603	std	muRata	5650
1	C3	150p	Capacitor, Ceramic, 270pF, 50-V, [temp], [tol]	0603	std	muRata	5650
	C5	1u	Capacitor, Ceramic, 1-uF, 16-V, [temp], [tol]	0805	std	PANASONIC	10560
	C7	1u	Capacitor, Ceramic, 1-uF, 16-V, [temp], [tol]	0805	std	STD	10560
	C9	10uF	Capacitor, Ceramic, 10-uF, 25-V, X5R, 20%	1206	ECJ-3YB1E106M	Panasonic	15390
1	C1A7	DNP	Capacitor, Ceramic, 1-uF, 16-V, [temp], [tol]	0805	std	PANASONIC	10560
2	C2A2	1u	Capacitor, Ceramic, 1-uF, 16-V, [temp], [tol]	0805	std	PANASONIC	10560
2	C3A5	1u	Capacitor, Ceramic, 1-uF, 16-V, [temp], [tol]	0805	std	STD	10560
1	D2	DNP	Diode, Schottky Barrier, 300mA, 20 V	SMini-F2	MA2SD10	Panasonic	7.406 mm
4	D5	MA2SD10	Diode, Schottky Barrier, 300mA, 20 V	SMini-F2	MA2SD10	Panasonic	7.406 mm
	D6	MA2SD10	Diode, Schottky Barrier, 300mA, 20 V	SMini-F2	MA2SD10	Panasonic	7.406 mm
	D7	MA2SD10	Diode, Schottky Barrier, 300mA, 20 V	SMini-F2	MA2SD10	Panasonic	7.406 mm
	D8	MA2SD10	Diode, Schottky Barrier, 300mA, 20 V	SMini-F2	MA2SD10	Panasonic	7.406 mm
1	D1A1	Red	Diode, LED, Red, 1.8-V, 20-mA, 20-mcd	0603	160-1181-1-ND	Liteon	
2	D2A1	Green	Diode, LED, Green, 2.1-V, 20-mA, 6-mcd	0603	160-1183-1-ND	Liteon	
	D3A1	Green	Diode, LED, Green, 2.1-V, 20-mA, 6-mcd	0603	160-1183-1-ND	Liteon	
1	FB1	330 ohms	Ferrite Chip, 330 Ohm @100MHz, 2.5A	0805	MPZ2012S331A	TDK	15.3
1	J1	UX60-MB-5ST	Connector, Recpt, USB-B, Mini, 5-pins, SMT	0.354 X 0.303 Inches	UX60-MB-5ST	Hirose Electrical Co	117,342
2	J3		Terminal Block, 4-pin, 6-A, 3.5mm	0.55 x 0.25	ED1516	OST	148400
	J4		Terminal Block, 4-pin, 6-A, 3.5mm	0.55 x 0.25	ED1516	OST	148400
1	J5	PTC36SAAN	Header, Male 3-pin, 100mil spacing, (36-pin strip)	0.100 inch x 3	PTC36SAAN	Sullins	0.043 inch
1	J1A1		Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST	75525
3	J4A5		Header, 3-pin, 100mil spacing, (36-pin strip)	0.100 x 3	PTC36SAAN	Sullins	34100
	J5A5		Header, 3-pin, 100mil spacing, (36-pin strip)	0.100 x 3	PTC36SAAN	Sullins	34100
	J6A5		Header, 3-pin, 100mil spacing, (36-pin strip)	0.100 x 3	PTC36SAAN	Sullins	34100
1	L1	Transmitting Coil	Inductor, SMT, 47uH, 0.45A, 410milliohm	123057	817CY-470M	Toko	123057
1	L2	Charging Coil	Inductor, SMT, 47uH, 0.45A, 410milliohm	123057	817CY-470M	Toko	123057
1	Q1	2N7002K	MOSFET, Nch, 60V, 0.3A, 4 Ohm	SOT23	2N7002K	Vishay	14105
1	R1	0	Resistor, Chip, 10-Ohms, 1/16-W, 1%	0603	Std	Std	9100
1	R2	0	Resistor, Chip, 1/16-W, 1%	0603	Std	Std	9100
1	R4	DNP	Resistor, Chip, 2.2K-Ohms, 1/16-W, 1%	0603	Std	Std	9100
1	R5	3.16k	Resistor, Chip, 1/16-W, 1%	0603	Std	Std	9100
1	R9	DNP	Resistor, Chip, 100K-Ohms, 1/16-W, 1%	0603	Std	Std	9100
3	R1A1	1.5k	Resistor, Chip, 1.5k-Ohms, 1/16-W, 1%	0603	Std	Std	5650
	R2A1	1.5k	Resistor, Chip, 1.5k-Ohms, 1/16-W, 1%	0603	Std	Std	5650
2	R3A1	1M	Resistor, Chip, 1M-Ohms, 1/16-W, 1%	0603	Std	Std	5650
1	R4A1	30.9K	Resistor, Chip, 1.13k-Ohms, 1/16-W, 1%	0603	Std	Std	5650
	R5A1	1.5k	Resistor, Chip, 1.5k-Ohms, 1/16-W, 1%	0603	Std	Std	5650
	R6A1	1M	Resistor, Chip, 1M-Ohms, 1/16-W, 1%	0603	Std	Std	5650

1	U1	SN74LVC1G14DC	IC, Single Schmitt-Trigger Inverter	DCK-5	SN74LVC1G14DCK	TI	19,500
1	U3	BQ24300TDFN	IC, Li+ Charger Front-End Protection	TDFN-8	BQ24300TDFN	TI	35630
1	U1A1	bq24010	IC, Single Li -ION/Li-POLY, Charge Manager	MLP10	bq24010	TI	40500

- 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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