

Filename: PMP2543REVC_bom.xls						
Date: 11/15/2007						
PMP2543REVC BOM						
COUNT	RefDes	Value	Description	Size	Part Number	MFR
2	C1	22uF	Capacitor, Ceramic, 22uF, 16V, X5R, 20%, 1210	1210	C3225X7R1C226MT	TDK
	C2	22uF	Capacitor, Ceramic, 22uF, 16V, X5R, 20%, 1210	1210	C3225X7R1C226MT	TDK
5	C3	47u	POSCAP 16TQC47M			Sanyo
1	C4	0.1uF	Capacitor, Ceramic, 0.1uF, 50V, X7R, 10%, 0603	0603	Std	Std
2	C5	22uF	Capacitor, Ceramic, 22uF, 6.3V, X5R, 20%, 0805	0805	C2012X5R0J226MT	TDK
	C6	22uF	Capacitor, Ceramic, 22uF, 6.3V, X5R, 20%, 0805	0805	C2012X5R0J226MT	TDK
1	C8	220uF	Capacitor, Aluminum, 220uF, 4V, 5 milliOhms	7343	EEFCX0G221R	Panasonic
1	C9	47uF	Capacitor, Ceramic, 47uF, 6.3V, X5R, 20%, 1206	1206	C3216X5R0J476MT	TDK
1	C10	0.033uF	Capacitor, Ceramic, 0.033uF, 16V, X7R, 10%, 0603	0603	Std	Std
1	C11	330pF	Capacitor, Ceramic, 330pF, 50V, NPO, 10%, 0603	0603	Std	Std
1	C12	0.01uF	Capacitor, Ceramic, 0.01uF, 25V, X7R, 10%, 0603	0603	Std	Std
2	C13	22uF	Capacitor, Aluminum, xxV, 20%	0.177 x 0.177	ECE-Vxxxvvvz	Panasonic
2	C14	1uF	Capacitor, Ceramic, 1uF, 16V, X5R, 10%, 0603	0603	C1608X5R1C105KT	TDK
1	C15	4.7uF	Capacitor, Ceramic, 4.7uF, 6.3V, X5R, 10%, 0603	0603	C1608X5R0J475KT	TDK
	C16	22uF	Capacitor, Aluminum, xxV, 20%	0.177 x 0.177	ECE-Vxxxvvvz	Panasonic
	C17	1uF	Capacitor, Ceramic, 1uF, 16V, X5R, 10%, 0603	0603	C1608X5R1C105KT	TDK
	C19	47u	POSCAP 16TQC47M			Sanyo
3	C202	150u	POSCAP, TPE, 150uF, 4V, 18milliOhm		4TPE150MI	Sanyo
3	C203	100n	Capacitor, Ceramic, vvV, [temp], [tol]	0603	Std	Std
3	C204	1u	Capacitor, Ceramic, 1uF, 16V	0603	Std	Std
3	C209	10u	Capacitor, Ceramic, 10uF,16V, X5R, 20%	1210	C3225X5R1C106M	TDK
2	C210	2.2uF	Capacitor, Ceramic, 0.1uF, 50V, X7R, 10%, 0603	0603	Std	Std
2	C211	100nF	Capacitor, Ceramic, 0.1uF, 50V, X7R, 10%, 0603	0603	Std	Std
1	C212	10nF	Capacitor, Ceramic, 0.01uF, 25V, X7R, 10%, 0603	0603	Std	Std
1	C213	22pF	Capacitor, Ceramic, 0.01uF, 25V, X7R, 10%, 0603	0603	Std	Std
	C214	100nF	Capacitor, Ceramic, 0.1uF, 50V, X7R, 10%, 0603	0603	Std	Std
	C215	2.2uF	Capacitor, Ceramic, 0.1uF, 50V, X7R, 10%, 0603	0603	Std	Std
	C217	47u	POSCAP 16TQC47M			Sanyo
	C302	150u	POSCAP, TPE, 150uF, 4V, 18milliOhm		4TPE150MI	Sanyo
	C303	100n	Capacitor, Ceramic, vvV, [temp], [tol]	0603	Std	Std
	C304	1u	Capacitor, Ceramic, 1uF, 16V	0603	Std	Std
	C309	10u	Capacitor, Ceramic, 10uF,16V, X5R, 20%	1210	C3225X5R1C106M	TDK
	C399	47u	POSCAP 16TQC47M			Sanyo
	C402	150u	POSCAP, TPE, 150uF, 4V, 18milliOhm		4TPE150MI	Sanyo
	C403	100n	Capacitor, Ceramic, vvV, [temp], [tol]	0603	Std	Std

	C404	1u	Capacitor, Ceramic, 1uF, 16V	0603	Std	Std
	C409	10u	Capacitor, Ceramic, 10uF, 16V, X5R, 20%	1210	C3225X5R1C106M	TDK
	C499	47u	POSCAP 16TQC47M			Sanyo
1	D2	TLV1117I-33CDCY	IC, vV, 800mA LDO Voltage Regulators	SOT-223	TLV1117I-xxCDCY	TI
5	J1	ED1609-ND	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35"	ED1609	OST
	J2	ED1609-ND	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35"	ED1609	OST
	J3	ED1609-ND	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35"	ED1609	OST
2	J4	PTC36SAAN	Header, 2-pin, 100mil spacing, (36-pin strip)	0.100 inch x 2	PTC36SAAN	Sullins
	J5	PTC36SAAN	Header, 2-pin, 100mil spacing, (36-pin strip)	0.100 inch x 2	PTC36SAAN	Sullins
	J7	ED1609-ND	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35"	ED1609	OST
	J8	ED1609-ND	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35"	ED1609	OST
4	J201		Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	D120/2DS	OST
	J210		Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	D120/2DS	OST
	J301		Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	D120/2DS	OST
	J401		Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	D120/2DS	OST
1	L1	1uH	Inductor, SMT, 1uH, 29A, 0.0025 Ohms	0.51 x 0.51	IHLP5050EZRZ1R0M01	Vishay Dale
3	L201	12u	SMD Choke Coil, 12uH, 26milliOhm, 3.7A		ELLCTV120M	Panasonic
	L301	12u	SMD Choke Coil, 12uH, 26milliOhm, 3.7A		ELLCTV120M	Panasonic
	L401	12u	SMD Choke Coil, 12uH, 26milliOhm, 3.7A		ELLCTV120M	Panasonic
1	Q1	Si7344DP	MOSFET, N-Ch, 20V, 14A, 0.012 Ohms	PWRPAK S0-8	Si7344DP	
1	Q2	Si7636DP	MOSFET, N-Ch, 30V, 25A, 0.0048 Ohms	PWRPAK S0-8	Si7636DP	
3	Q201	Si4892DY	Trans, N-ch, 30V, 7A, 20 milliohm, Qg=10.5nC	SO8	Si4892DY	Vishay
	Q301	Si4892DY	Trans, N-ch, 30V, 7A, 20 milliohm, Qg=10.5nC	SO8	Si4892DY	Vishay
	Q401	Si4892DY	Trans, N-ch, 30V, 7A, 20 milliohm, Qg=10.5nC	SO8	Si4892DY	Vishay
1	R1	51.1	Resistor, Chip, 51.1 Ohms, 1%, 0603	0603	Std	Std
6	R2	0	Resistor, Chip, 0 Ohms	0603	Std	Std
1	R3	3.32K	Resistor, Chip, 3.32K Ohms, 1%, 0603	0603	Std	Std
6	R4	open	Resistor, Chip, open	0603	Std	Std
1	R5	100K	Resistor, Chip, 100K Ohms, 1%, 0603	0603	Std	Std
1	R6	5.76K	Resistor, Chip, 5.76K Ohms, 1%, 0603	0603	Std	Std
	R8	0	Resistor, Chip, 0 Ohms	0603	Std	Std
	R9	open	Resistor, Chip, open	0603	Std	Std
	R10	open	Resistor, Chip, open	0603	Std	Std
	R11	0	Resistor, Chip, 0 Ohms	0603	Std	Std
	R12	0	Resistor, Chip, 0 Ohms	0603	Std	Std
	R13	open	Resistor, Chip, open	0603	Std	Std
	R14	open	Resistor, Chip, open	0603	Std	Std
	R15	open	Resistor, Chip, open	0603	Std	Std
	R16	0	Resistor, Chip, 0 Ohms	0603	Std	Std
	R17	0	Resistor, Chip, 0 Ohms	0603	Std	Std

1	R18	open	Resistor, Chip, 0 Ohms	0603	Std	Std
1	R210	31.6k	Resistor, Chip, 0 Ohms	0603	Std	Std
1	R211	30.1k	Resistor, Chip, 0 Ohms	0603	Std	Std
1	R301	147k	Resistor, Chip, 147kOhm, 1/16W, 1%	0603	Std	Std
1	R317	10k	Resistor, Chip, 10k, 0603, 1/16W, 1%	0603	Std	Std
7	TP1	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP2	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
4	TP3	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
	TP4	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP5	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP6	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP7	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP8	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
	TP9	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
	TP10	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP11	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
1	U1	TPS51116PWP	IC, Synchronous VDDQ Controller w/ VTT LDO Regulator, PWP	PWP20	TPS51116PWP	Texas Instruments
1	U2	UA78M05	IC, Voltage Regulator, 5V, 500mA	DCY	UA78M05IDCY	Texas Instruments
1	U201	TPS54356PWP	IC, 4.5-V to 20-V Input, 3-A Output Synchronous PWM Switcher	PWP16	TPS54356PWP	TI
1	U213	TPS79301DBVR	IC, UltraLow-Noise, High PSRR, Fast RF 200 mA, LDO Regulator	SOT23-6	TPS79301DBVR	TI
1	U301	TPS54352PWP	IC, 4.5-V to 20-V Input, 3-A Output Synchronous PWM Switcher	PWP16	TPS54354PWP	TI
1	U401	TPS54354PWP	IC, 4.5-V to 20-V Input, 3-A Output Synchronous PWM Switcher	PWP16	TPS54354PWP	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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