

Filename: PMP7233RevA - BoM.xls

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## PMP7233RevA - Bill of Material

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
14	C1, C2, C7, C17, C33, C34, C35, C36, C37, C38, C40, C43, C44, C46	100nF	Capacitor, Ceramic, 50V, X7R, 15%	603	Std	Std
2	C10, C24	1uF	Capacitor, Ceramic, 50V, X7R, 15%	1206	Std	Std
2	C18, C25	330uF	Capacitor, Electrolytic, 25V, 27mOhm, 1.4A	0.492 inch	25ZLG330M10X12.5	Rubycon
2	C19, C26	10uF	Capacitor, Ceramic, 25V, X5R, 15%	1210	Std	Std
1	C20	10nF	Capacitor, Ceramic, 50V, X7R, 15%	603	Std	Std
1	C21	1nF	Capacitor, Ceramic, 50V, X7R, 15%	805	Std	Std
1	C27	680pF	Capacitor, Ceramic, 50V, X7R, 15%	603	Std	Std
1	C28	1uF	Capacitor, Ceramic, 16V, X5R, 15%	603	Std	Std
3	C3, C4, C13	470uF	Capacitor, Electrolytic, 35V, 28mOhm, 1.76A	0.571 inch	EKZM350ELL471MJ16S	Nippon Chemi-Con
1	C30	open	Capacitor, Ceramic, 50V, X7R, 15%	603	Std	Std
1	C31	47pF	Capacitor, Ceramic, 50V, X7R, 15%	603	Std	Std
1	C32	22nF	Capacitor, Ceramic, 50V, X7R, 15%	603	Std	Std
2	C39, C42	10uF	Capacitor, Ceramic, 6.3V, X5R, 15%	603	Std	Std
5	C5, C11, C12, C14, C15	4.7uF	Capacitor, Ceramic, 50V, X7R, 15%	1210	Std	Std
2	C6, C16	220nF	Capacitor, Ceramic, 50V, X7R, 15%	603	Std	Std
2	C8, C29	10uF	Capacitor, Ceramic, 16V, X5R, 15%	805	Std	Std
5	C9, C22, C23, C41, C45	1nF	Capacitor, Ceramic, 50V, X7R, 15%	603	Std	Std
1	D1	15V	Diode, Zener, 15V, 350mW	SOT-23	BZX84C15	Vishay
2	D10, D12	BAT54S	Diode, Dual Schottky, 30V, 200mA	SOT23	BAT54S	Fairchild
1	D11	BAT54A	Diode, Dual Schottky, 30V, 200mA	SOT23	BAT54A	Fairchild
1	D2	MBR0540	Diode, Schottky, 40V, 0.5A	SOD-123	MBR0540T	OnSemi
1	D3	B360A	Diode, Schottky, 60V, 3A	SMA	B360A	Diodes
1	D4	MBRA140	Diode, Schottky, 40V, 1A	SMA	MBRA140T3G	On Semi
1	D5	B560C	Diode, Schottky, 60V, 5A	SMC	B560C	Diodes
1	D6	WP934EB/GD	LED, Right Angle, Green	T1	WP934EB/GD	Kingbright
1	D7	WP934EB/GD	LED, Right Angle, Yellow	T1	WP934EB/GD	Kingbright
1	D8	WP934EB/3GD	LED, Tri-Level, Green	T1	WP934EB/3GD	Kingbright

1	D9	WP934EB/2GD	LED, Bi-Level, Green	T1	WP934EB/2GD	Kingbright
2	J1, J6	23.3200-22	Connector, banana plug, red	12x33 mm	23.3200-22	Multi Contact
2	J10, J12	731000131	Connector, Right Angle BNC, PCB Mount	1.400 x 0.580 inch	731000131	Molex
1	J13	PEC02SAAN	Header, Male 2-pin, 100mil spacing,	0.100 inch x 2	PEC02SAAN	Sullins
1	J14	PEC05SAAN	Header, Male 5-pin, 100mil spacing,	0.100 inch x 5	PEC05SAAN	Sullins
2	J2, J5	PB4 RED	Socket, 4 mm	7.5x21 mm	PB4 RED	Hirschmann
2	J3, J8	PB4 BLACK	Socket, 4 mm	7.5x21 mm	PB4 BLACK	Hirschmann
2	J4, J7	23.3200-21	Connector, banana plug, black	12x33 mm	23.3200-21	Multi Contact
2	J9, J11	C-1337445	Connector, 50 Ohm BNC, TH Vertical	12x12 mm	C-1337445	Tyco
1	L1	2.2uH	Inductor, Power, 12mOhm, 9A rms, 13A sat	7.0 x 6.9 mm	744311220	Wuerth
1	L2	100uH	Inductor, SMT, 1 Ohm, 0.65A rms, 0.50A sat	0.287 x 0.287 inch	744778520	Wuerth
1	L3	5.6uH	Inductor, 2.8mOhm, 25A rms, 27A sat	18.2 x 18.3 mm	7443557560	Wuerth
1	Q1	SUD50P06-15	MOSFET, P-ch, -60V, -50A, 15mOhm	DPAK	SUD50P06-15	Vishay
4	Q10, Q11, Q12, Q13	CSD18503Q5A	MOSFET, N-ch, 40V, 3.4mOhm, 27nC	TDSON-8	CSD18503Q5A	Texas Instruments
15	Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q14, Q15, Q16, Q17, Q18, Q19, Q20	2N7002	MOSFET, N-ch, 60V, 115mA, 1.2 Ohm	SOT23	2N7002	Fairchild
1	Q21	TPS3809K33	IC, Supply Voltage Supervisor, 3.3V	SOT23	TPS3809K33DKB	Texas Instruments
1	R1	909	Resistor, Chip, 1/16W, 1%	603	Std	Std
1	R10	14.7k	Resistor, Chip, 1/16W, 1%	603	Std	Std
1	R11	29.4k	Resistor, Chip, 1/16W, 1%	603	Std	Std
1	R12	59.0k	Resistor, Chip, 1/16W, 1%	603	Std	Std
1	R13	118k	Resistor, Chip, 1/16W, 1%	603	Std	Std
2	R14, R40	49.9	Resistor, Chip, 1/16W, 1%	603	Std	Std
1	R15	3.32k	Resistor, Chip, 1/16W, 1%	603	Std	Std
1	R2	1.82k	Resistor, Chip, 1/16W, 1%	603	Std	Std
1	R20	10	Resistor, Chip, 1/16W, 1%	603	Std	Std
2	R21, R56	1.00k	Resistor, Chip, 1/16W, 1%	603	Std	Std
1	R22	10k	Resistor, Chip, 1/16W, 1%	603	Std	Std
1	R23	200k	Resistor, Chip, 1/16W, 1%	603	Std	Std
1	R24	1	Resistor, Chip, 1/16W, 1%	603	Std	Std
1	R26	38.3k	Resistor, Chip, 1/16W, 1%	603	Std	Std
3	R27, R28, R31	3.3	Resistor, Chip, 1/16W, 1%	603	Std	Std
1	R29	3.3	Resistor, Chip, 1/4W, 10%	1206	Std	Std
1	R3	3.65k	Resistor, Chip, 1/16W, 1%	603	Std	Std
1	R32	1.78k	Resistor, Chip, 1/16W, 1%	603	Std	Std

1	R33	4.32k	Resistor, Chip, 1/16W, 1%	603	Std	Std
1	R34	27.4k	Resistor, Chip, 1/16W, 1%	603	Std	Std
1	R35	10.5k	Resistor, Chip, 1/16W, 1%	603	Std	Std
1	R36	open	Resistor, Chip, 1/16W, 1%	603	Std	Std
1	R39	261	Resistor, Chip, 1/16W, 1%	603	Std	Std
1	R4	7.32k	Resistor, Chip, 1/16W, 1%	603	Std	Std
7	R41, R42, R43, R44, R45, R46, R47	560	Resistor, Chip, 1/16W, 1%	603	Std	Std
25	R5, R6, R7, R8, R9, R16, R17, R18, R19, R25, R30, R37, R38, R48, R49, R50, R51, R52, R53, R54, R55, R60, R61, R62, R63	10.0k	Resistor, Chip, 1/16W, 1%	603	Std	Std
1	R57	100k	Resistor, Chip, 1/16W, 1%	603	Std	Std
1	R58	47.5k	Resistor, Chip, 1/16W, 1%	603	Std	Std
1	R59	150	Resistor, Chip, 1/16W, 1%	603	Std	Std
1	R64	5k	Potentiometer, Carbon, 1/8W, Vert. Adjust	0.288 x 0.600 inch	296XD502B1N	CTS
4	S1, S2, S3, S4	FSMRA7JH	Switch, Tactile	0.280 x 0.300 inch	FSMRA7JH	TE Connectivity
4	SC1, SC2, SC3, SC4		Through Hole for Screw #M3		M3	
1	U1	LM2841X	IC, Step-Down DC/DC Regulator, 300mA	SOT-23	LM2841X	Texas Instruments
1	U2	TPS40170	IC, 4.5V - 60V Sync. PWM Buck Controller	QFN-20	TPS40170RGY	Texas Instruments
2	U3, U5	SN74LVC1G14	IC, Single Schmitt-Trigger Inverter	DCK-5	SN74LVC1G14DCK	Texas Instruments
1	U4	MSP430F2274	IC, Mixed Signal Microcontroller	TSSOP-38	MSP430F2274IDA	Texas Instruments

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