

Filename: PMP5835\_REVA\_bom.xls

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## PMP5835\_REVA BOM

COUNT	RefDes	Value	DESCRIPTION	SIZE	PART NUMBER	MFR
2	C1, C2	10uF/25V	Capacitor, Ceramic, vvV, [temp], [tol]	1206	GRM42-6yyyxxxKv	muRata
1	C10	68pF	Capacitor, Ceramic, 50V, C0G, 5%	0603	GRM1885C1H100J	muRata
2	C15, C16	330uF	Capacitor, Aluminum, SMT, 2V, 6mOhms, 20%	7343(D)	EEFSX0D331XE	Panasonic
1	C18	10uF	Capacitor, Ceramic, vvV, [temp], [tol]	0603	GRM39yyyxxxKvvv	muRata
1	C19	10nF	Capacitor, Ceramic, vvV, [temp], [tol]	0603	GRM39yyyxxxKvvv	muRata
1	C21	*22nF/NPO	Capacitor, Ceramic, vvV, [temp], [tol]	0805	C2012C0G1E103J	TDK
2	C27, C28	100pF	Capacitor, Ceramic, vvV, [temp], [tol]	0603	GRM39yyyxxxKvvv	muRata
1	C3	1uF	Capacitor, Ceramic, Low Inductance, vvV, [temp], [tol]	0603	GRM39yyyxxxKvvv	muRata
	C37, C38, C46, C47, C49, C50, C57, C58, C65,					
12	C66, C67, C68	10uF/6V	Capacitor, Ceramic, vvV, [temp], [tol]	0805	GRM40yyyxxxKvv	muRata
1	C4	*1uF	Capacitor, Ceramic, Low Inductance, vvV, [temp], [tol]	0603	GRM39yyyxxxKvvv	muRata
1	C5	1000pF	Capacitor, Ceramic, vvV, [temp], [tol]	1206	GRM42-6yyyxxxKv	muRata
1	C6	1500pF	Capacitor, Ceramic, 50 or 100V, X7R, 15%	0805	GRM40yyyxxxKvv	muRata
2	C74, C75	1uF	Capacitor, Ceramic, 25V, X7R, 10%	0603	GRM188R61E105t	muRata
1	C82	10nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	GRM188R71H104t	muRata
1	C85	*100pF	Capacitor, Ceramic, vvV, [temp], [tol]	0603	GRM39yyyxxxKvvv	muRata
3	C9, C13, C17	1uF	Capacitor, Ceramic, vvV, [temp], [tol]	0603	GRM39yyyxxxKvvv	muRata
3	D16, D17, D23	GREEN	Diode, LED, Green Clear, 20mcd	0.079 X 0.049	LTST-C170CKT	Lite On
2	D21, D24	AMBER	Diode, LED, Amber Clear, 6mcd	0.079 X 0.049	LTST-C170AKT	Lite On
2	D22, D25	RED	Diode, LED, Red Clear, 20mcd	0.079 X 0.049	LTST-C170CKT	Lite On
1	D4	MBR0530	Diode, Schottky, 0.5A, 30V	SOD-123	MBR0530Tx	On Semi
3	J1, J2, J3	PTC36DAAN	Header, 2x4-pin, 100mil spacing (36-pin strip)	0.20 x 0.40 incl	PTC36DAAN	Sullins
1	J11	PTC36DAAN	Header, 2x7 pin, 100mil spacing (36 pin strip)	0.100 inch x 2X	PTC36DAAN	Sullins
1	J4	PTC36SAAN	Header, Male 2-pin, 100mil spacing, (36-pin strip)	0.100 inch x 2	PTC36SAAN	Sullins
1	J5	PTC36DAAN	Header, 2x2-pin, 100mil spacing (36-pin strip)	0.20 x 0.20 incl	PTC36DAAN	Sullins
1	J7	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED1514	OST
2	J8, J10	ED1609-ND	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	ED1609	OST
1	JP1	PTC36SAAN	Header, 2-pin, 100mil spacing, (36-pin strip)	0.100 inch x 2	PTC36SAAN	Sullins
1	L1	0.68uH	Inductor, SMT, 15.5A, 5-milliohm	0.255 x 0.270 ir	IHLP2525CZ-01	Vishay
1	Q1	CSD16411Q3	MOSFET, NChan, 25V, 12 milliOhm, 2.9nC	QFN3.3X3.3mm	CSD16411Q3	TI[Ciclon]
3	Q13, Q14, Q15	BSS83P	MOSFET, Pch, -60V, -0.33A, 2 Ohm	SOT23	BSS83P	Infineon
3	Q17, Q18, Q19	BSS123	MOSFET, Nch, 100V, 0.17A, 6 Ohm	SOT23	BSS123	Fairchild
1	Q2	BSC022N03S	MOSFET, Nch, 30V, 50A, 2.2 milliohm	TDSON-8	BSC022N03S	Infineon
1	Q3	CSD16406Q3	MOSFET, NChan, 25V, 5.9 milliOhm, 5.8nC	QFN3.3X3.3mm	CSD16406Q3	TI[Ciclon]

1	R1	10K	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F Vishay
1	R10	2.2	Resistor, Chip, 1/16W, 5%	0603	CRCW0603-xxx-J Vishay
1	R11	0	Resistor, Chip, 1/16W, x%	0603	Std Std
1	R18	79K	Resistor, Chip, 1/16W, yy%	0603	Std Std
1	R19	*24.9k	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F Vishay
1	R2	45.3k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F Vishay
3	R20, R22, R27	*470	Resistor, Chip, 1/16W, x%	0402	Std Std
1	R21	470	Resistor, Chip, 1/16W, x%	0402	Std Std
2	R23, R31	0	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F Vishay
1	R24	*165K	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F Vishay
1	R26	*43.2K	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F Vishay
1	R3	330	Resistor, Chip, 1/16W, x%	0603	Std Std
2	R32, R33	*27.1	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F Vishay
1	R34	1	Resistor, Chip, 1/2W, 5%	2010	STD Vishay
1	R39	1	Resistor, Chip, 1/10W, yy%	0805	Std Std
4	R4, R7, R12, R13	0.05	Resistor, xx milliOhm, 1W, yy%	2512	STD STD
1	R40	100k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F Vishay
1	R41	324k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F Vishay
1	R5	*1k	Resistor, Chip, 1/16W, yy%	0603	Std Std
1	R6	2.61k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxx-J Vishay
6	R66, R69, R70, R97, R98, R100 R67, R68, R102,	180	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F Vishay
4	R108 R72, R87, R89,	1.0k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F Vishay
5	R95, R96	10k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F Vishay
1	R8	1mohm	Resistor, Metal Film, 1/4 watt, ± 5%	1206	CRCW1206-xxx-J Vishay
1	R9	0.005	Resistor, xx milliOhm, 1W, yy%	2512	STD STD
1	R90	*0	Resistor, Chip, 1/16W, 5%	0603	CRCW0603-xxx-J Vishay
1	R91	1	Resistor, Chip, 1/16W, 5%	0603	CRCW0603-xxx-J Vishay
2	R92, R93	100k	Resistor, Chip Array, 100 mW ± 0.1%	612	ACAC0612441x90 Vishay
1	R94	10k	Resistor, Chip Array, 100 mW ± 0.1%	1210	EXB-38V103JV Panasonic
1	RT1	150K	NTC Thermistor, 0603, 5%,	0603	ERTJ1VV154J Panasonic
1	RT2	*150K	NTC Thermistor, 0603, 5%,	0603	ERTJ1VV154J Panasonic
1	S3 SH1, SH2, SH3, SH5, SH6, SH15,	EG1218A	Switch, SPDT, Slide, PC-mount,	0.457 x 0.157 ir	EG1218A E_Switch
7	SH16		Short jumper		
1	TP1	VBAT	Test Point, O.032 Hole		STD STD
1	TP12	DRVL	Test Point, O.032 Hole		STD STD
1	TP13	BST2	Test Point, O.032 Hole		STD STD
1	TP14	LL	Test Point, O.032 Hole		STD STD

1	TP15	DRVH	Test Point, O.032 Hole		STD	STD
1	TP16	THERM	Test Point, O.032 Hole		STD	STD
1	TP19	PWRMON	Test Point, O.032 Hole		STD	STD
	TP2, TP11, TP41,					
4	TP44	GND	Test Point, O.032 Hole		STD	STD
1	TP23	CSP1	Test Point, O.032 Hole		STD	STD
1	TP24	CSN1	Test Point, O.032 Hole		STD	STD
1	TP3	131-4244-00	Adaptor, 3.5-mm probe clip ( or 131-5031-00)	0.200 inch	131-4244-00	Tektronix
1	TP31		Test Point, O.032 Hole	0.100 x 0.100 ir	STD	STD
1	TP32	STD	Test Point, O.032 Hole		STD	STD
1	TP34	5V_R	Test Point, O.032 Hole		STD	STD
1	TP35	3.3V	Test Point, O.032 Hole		STD	STD
1	TP36	5V	Test Point, O.032 Hole		STD	STD
1	TP37	1.05V	Test Point, O.032 Hole		STD	STD
	TP4, TP6, TP7,					
6	TP8, TP10, TP30	STD	Test Point, O.032 Hole	0.100 x 0.100 ir	STD	STD
1	TP42	ISLEW	Test Point, O.032 Hole		STD	STD
1	TP45	5V_I	Test Point, O.032 Hole		STD	STD
1	TP48	VR_ON	Test Point, O.032 Hole		STD	STD
1	TP49	PGOOD	Test Point, O.032 Hole		STD	STD
1	TP5	VREF	Test Point, O.032 Hole		STD	STD
1	TP50	DPRSTP#	Test Point, O.032 Hole		STD	STD
1	TP51	DPRSLPVR	Test Point, O.032 Hole		STD	STD
1	TP52	CLKEN#	Test Point, O.032 Hole		STD	STD
1	TP53	VR_TT#	Test Point, O.032 Hole		STD	STD
1	TP75	DROOP	Test Point, O.032 Hole		STD	STD
1	TP9	AGND	Test Point, O.032 Hole		STD	STD
1	U1	PS51610/51610IRH	IC, Single Phase, D-Cap+ Synchronous Buck Controller	QFN-32	TPS51610RHB	TI
1	U2	TPS76133DBV	IC, Low-Power 100 mA LDO Regulator	SOT23-5	TPS761xxDBV	TI
1	U3	TPS71701DCK	IC, 150mA, Low Iq, Wide Bandwidth, LDO Linear Regulators	SC70	TPS717xxDCKx	TI
1	U4	UCC27324D	IC, Dual 4A High Speed Low-Side MOSFET Driver	MSOP-8	UCCX7324DGN	TI
1	U8	TLV3404PW	IC, Nano Power, Open Output Comparators	PW14	TLV3404PW	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. Q1, Q3 and U1, U2, U3, U4, U8 cannot be substituted.  
All other components can be substituted with equivalent MFG's components.
  5. Values with \* before actual value means part not populated

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