

Filename: PMP5486_REVA_bom.xls

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PMP5486_REVA BOM

COUNT	RefDes	Value	DESCRIPTION
2	C1, C2	10uF/25V	Capacitor, Ceramic, vvV, [temp], [tol]
1	C10	68pF	Capacitor, Ceramic, 50V, COG, 5%
1	C15	330uF	Capacitor, Aluminum, 2V, 20% (SX Series)
1	C18	10uF	Capacitor, Ceramic, vvV, [temp], [tol]
1	C19	10nF	Capacitor, Ceramic, vvV, [temp], [tol]
2	C27, C28	100pF	Capacitor, Ceramic, vvV, [temp], [tol]
1	C29	1000pF	Capacitor, Ceramic, 50V, X7R, 15%
1	C3	1uF	Capacitor, Ceramic, Low Inductance, vvV, [temp], [tol]
	C37, C38, C46, C47, C49, C50,		
9	C65, C67, C68	10uF/6V	Capacitor, Ceramic, vvV, [temp], [tol]
1	C5	1000pF	Capacitor, Ceramic, vvV, [temp], [tol]
2	C74, C75	1uF	Capacitor, Ceramic, 25V, X7R, 10%
1	C82	10nF	Capacitor, Ceramic, 50V, X7R, 10%
3	C9, C13, C17	1uF	Capacitor, Ceramic, vvV, [temp], [tol]
3	D16, D17, D23	GREEN	Diode, LED, Green Clear, 20mcd
2	D21, D24	AMBER	Diode, LED, Amber Clear, 6mcd
2	D22, D25	RED	Diode, LED, Red Clear, 20mcd
1	D4	MBR0530	Diode, Schottky, 0.5A, 30V
3	J1, J2, J3	PEC04DAAN	Header, 2x4-pin, 100mil spacing
1	J11	PEC07DAAN	Header, 2x7 pin, 100mil spacing
1	J4	PEC02SAAN	Header, Male 2-pin, 100mil spacing
1	J5	PEC02DAAN	Header, 2x2-pin, 100mil spacing
1	J7	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm
2	J8, J10	ED1609-ND	Terminal Block, 2-pin, 15-A, 5.1mm
1	JP1	PEC02SAAN	Header, 2-pin, 100mil spacing
1	L1	1.0uHy	Inductor, SMT, 6.5A, 13milliohm
1	Q1	CSD86330Q3D	MOSFET, Synchronous Buck NexFET Power Block
3	Q13, Q14, Q15	BSS83P	MOSFET, Pch, -60V, -0.33A, 2 Ohm
3	Q17, Q18, Q19	BSS123	MOSFET, Nch, 100V, 0.17A, 6 Ohm
1	Q2	CSD16407Q5	MOSFET, Nch, 25V, 3.3 milliohm @ 4.5Vgs
1	R1	10K	Resistor, Chip, 1/16W, 1%
1	R10	zero	Resistor, Chip, 1/16W, 5%
1	R11	0	Resistor, Chip, 1/16W, x%
1	R12	1	Resistor, Metal Film, 1/4 watt, ± 5%
1	R18	78.7k	Resistor, Chip, 1/16W, yy%
1	R2	45.3K	Resistor, Chip, 1/16W, 1%
2	R21, R22	470	Resistor, Chip, 1/16W, x%
2	R23, R31	10	Resistor, Chip, 1/16W, 5%
1	R3	330	Resistor, Chip, 1/16W, x%
1	R39	1	Resistor, Chip, 1/10W, yy%
2	R4, R7	0.1	Resistor, xx milliOhm, 1W, yy%
1	R40	100k	Resistor, Chip, 1/16W, 1%
1	R41	324k	Resistor, Chip, 1/16W, 1%

1	R6	5.76k	Resistor, Chip, 1/16W, 5%
6	R66, R69, R70, R97, R98, R100 R67, R68, R102,	180	Resistor, Chip, 1/16W, 1%
4	R108	1.0k	Resistor, Chip, 1/16W, 1%
6	R71, R72, R87, R89, R95, R96	10k	Resistor, Chip, 1/16W, 1%
1	R8	3mohm	Resistor, Metal Film, 1/4 watt, ± 5%
1	R9	0.005	Resistor, xx milliOhm, 1W, yy%
1	R91	1	Resistor, Chip, 1/16W, 5%
2	R92, R93	100k	Resistor, Chip Array, 62.5 mW ± 5%
1	R94	10k	Resistor, Chip Array, 100 mW ± 0.1%
1	RT1	150K	NTC Thermistor, 0603, 5%,
1	S3	EG1218A	Switch, SPDT, Slide, PC-mount,
1	TP1	VBAT	Test Point, Red, Thru Hole Color Keyed
1	TP12	DRVL	Test Point, O.032 Hole
1	TP13	BST2	Test Point, O.032 Hole
1	TP14	LL	Test Point, Red, Thru Hole Color Keyed
1	TP15	DRVH	Test Point, O.032 Hole
1	TP16	THERM	Test Point, Red, Thru Hole Color Keyed
1	TP19	PWRMON	Test Point, Red, Thru Hole Color Keyed
4	TP2, TP11, TP41, TP44	GND	Test Point, Black, Thru Hole Color Keyed
1	TP23	CSP1	Test Point, Red, Thru Hole Color Keyed
1	TP24	CSN1	Test Point, White, Thru Hole Color Keyed
1	TP3	131-4244-00	Adaptor, 3.5-mm probe clip (or 131-5031-00)
1	TP31	5002	Test Point, White, Thru Hole Color Keyed
1	TP34	5V_R	Test Point, Red, Thru Hole Color Keyed
1	TP35	3.3V	Test Point, Red, Thru Hole Color Keyed
1	TP36	5V	Test Point, Red, Thru Hole Color Keyed
1	TP37	1.05V	Test Point, White, Thru Hole Color Keyed
3	TP4, TP7, TP10	STD	Test Point, White, Thru Hole Color Keyed
1	TP42	ISLEW	Test Point, Red, Thru Hole Color Keyed
1	TP45	5V_I	Test Point, O.032 Hole
1	TP48	VR_ON	Test Point, White, Thru Hole Color Keyed
1	TP49	PGOOD	Test Point, White, Thru Hole Color Keyed
1	TP5	VREF	Test Point, Red, Thru Hole Color Keyed
1	TP50	DPRSTP#	Test Point, White, Thru Hole Color Keyed
1	TP51	DPRSLPVR	Test Point, Red, Thru Hole Color Keyed
1	TP52	CLKEN#	Test Point, Red, Thru Hole Color Keyed
1	TP53	VR_TT#	Test Point, Red, Thru Hole Color Keyed
4	TP6, TP8, TP30, TP32	STD	Test Point, Red, Thru Hole Color Keyed
1	TP75	DROOP	Test Point, White, Thru Hole Color Keyed
1	TP9	AGND	Test Point, Black, Thru Hole Color Keyed
1	U1	PS51610/51610IRH	IC, Single Phase, D-Cap+ Synchronous Buck Controller
1	U2	TPS76133DBV	IC, Low-Power 100 mA LDO Regulator
1	U3	TPS71701DCK	IC, 150mA, Low Iq, Wide Bandwidth, LDO Linear Regulators
1	U4	UCC27324DGN	IC, Dual 4A High Speed Low-Side MOSFET Driver
1	U8	TLV3404PW	IC, Nano Power, Open Output Comparators

- 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.

SIZE	PART NUMBER	MFR
1206	GRM42-6yyyxxxKv	muRata
0603	GRM1885C1H100	muRata
7343	EEF-SX0D331R	Panasonic
0603	GRM39yyyxxxKvvv	muRata
0805	GRM40yyyxxxKvv	muRata
0402	{Part Number}	{MFR}
0603	GRM188R61E105f	muRata
0603	GRM188R71H104f	muRata
0603	GRM39yyyxxxKvvv	muRata
0.079 X 0.049	LTST-C170CKT	Lite On
0.079 X 0.049	LTST-C170AKT	Lite On
0.079 X 0.049	LTST-C170CKT	Lite On
SOD-123	MBR0530Tx	On Semi
0.20 x 0.40 inc	PEC04DAAN	Sullins
0.100 inch x 2X	PEC07DAAN	Sullins
0.100 inch x 2	PEC02SAAN	Sullins
0.20 x 0.20 inc	PEC02DAAN	Sullins
0.27 x 0.25 incl	ED1514	OST
0.40 x 0.35 incl	ED1609	OST
0.100 inch x 2	PEC02SAAN	Sullins
	MPT530-1R0H1	
	PCMC053T-	
0.204 x 0.216 ir	1R0MN	Delta (Cyntec) Susumu
QFN-8 POWER	CSD86330Q3D	TI
SOT23	BSS83P	Infineon
SOT23	BSS123	Fairchild
TDSON-8	CSD16407Q5	TI
0603	CRCW0603-xxxx-F	Vishay
0603	CRCW0603-xxx-J	Vishay
0603	Std	Std
1206	CRCW1206-xxx-J	Vishay
0603	Std	Std
0603	CRCW0603-xxxx-F	Vishay
0402	Std	Std
0603	CRCW0603-xxxx-J	Vishay
0603	Std	Std
0805	Std	Std
2512	STD	STD
0603	CRCW0603-xxxx-F	Vishay
0603	CRCW0603-xxxx-F	Vishay

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