

Filename: PMP4740REVB_bom.xls

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PMP4740REVB BOM

COUNT	RefDes	Value	Description	Size	Part Number	MFR
2	C1, C2	10uF	Capacitor, Ceramic, 25V, X7R	1210	Std	Kemet, Murata, AVX
1	C10	1u	Capacitor, Ceramic, 16V, X7R, 20%	0603	std	std
1	C12	10n	Capacitor, Ceramic, 50V, [temp], [tol]	0603	std	std
1	C13	Open	Capacitor, Ceramic, Low Inductance, 50V	0603	std	std
1	C3	100n	Capacitor, Ceramic, 50V, [temp], [tol]	0603	std	std
2	C4, C5	4.7uF	Capacitor, Ceramic, 50V, X7R	1210	Std	Kemet, Murata, AVX
2	C6, C11	100p	Capacitor, Ceramic, 50V, [temp], [tol]	0603	std	std
1	C7	100n	Capacitor, Ceramic, 16V, [temp], [tol]	0603	std	std
1	C8	330p	Capacitor, Ceramic, vvV, [temp], [tol]	0603	std	std
1	C9	1n	Capacitor, Ceramic, 50V, [temp], [tol]	0603	std	std
1	D1	B560C	Diode, 5A, 60V	SMC	B560C	Diodes Inc.
1	D2	47V	Diode, Zener, 47-V, 225-mW	SOT23	MMBZ5261BLT1	ON SEMI
2	D3, D4	1N4148W	Diode, Signal, 300-mA, 75-V, 350-mW	SOD-123	1N4148W	Diodes
2	J1, J2	D120/2DS	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	D120/2DS	OST
1	J3	PTC36SAAN	Header, Male 2-pin, 100mil spacing, (36-pin strip)	0.100 inch x 2	PTC36SAAN	Sullins
1	L1	10uH	Inductor, 10.2uH, 4Amps, 13.3milliOhm	0.504 x 0.504 inch	ETQP6F102HFA	Panasonic
1	Q2	2N7002	MOSFET, N-ch, 60-V, 115-mA, 1.2-Ohms	SOT23	2N7002	Diodes
1	Q3	Si7850DP	MOSFET, NChannel, 60V, 10.3 A, 0.022 milliohm	PWRPAK S0-8	Si7850DP	Vishay
1	R1	10	Resistor, Chip, 1/16W, 1%	0603	std	std
1	R10	49.9	Resistor, Chip, 1/16W, 1%	0603	std	std
1	R11	15k	Resistor, Chip, 1/16W, x%	0603	Std	Std
1	R12	10k	Resistor, Chip, 1/16W, 5%	0603	Std	Std
1	R13	Open	Resistor, Metal Film, 1/4 watt, ± 5%	1206	Std	Std
1	R2	402k	Resistor, Chip, 1/16W, 1%	0603	std	std
1	R3	0	Resistor, Chip, 1/16W, 1%	0603	std	std
2	R4, R5	1.05	Resistor, Chip, 1/10W, 1%	0805	Std	Std
1	R6	1k	Resistor, Chip, 1/16W, 1%	0603	std	std
1	R7	0.02	Resistor, Chip, 1/10W, 1%	0805	Std	Std
1	R8	14.3k	Resistor, Chip, 1/16W, 1%	0603	std	std
1	R9	30.1k	Resistor, Chip, 1/16W, 1%	0603	std	std
2	TP1, TP4	5010	Test Point, Red, Thru Hole	0.125 x 0.125 inch	5010	Keystone
3	TP2, TP6, TP9	5011	Test Point, Black, Thru Hole	0.125 x 0.125 inch	5011	Keystone
1	TP3	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
3	TP5, TP7, TP8	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone
1	U1	TPS40211DGQ	IC, 4.5V-52V I/P, Current Mode Boost Controller	DGQ10	TPS40211DGQ	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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