

PMP4804_REVB BOM

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
4	C1, C2, C3, C4	2.2uF	Capacitor, Ceramic, 100-V, X7R, 20%	1210	C3225X7R2A225M	TDK
3	C11, C12, C20	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
1	C13	100uF	Capacitor, Aluminum, 25V, ZL Series	0.200 * 0.435 inch	25V ZL 100uF	Rubycon
1	C14	1000pF	Capacitor, Ceramic, 2kV, C0G, 10%	1812	Std	Std
3	C15, C16, C23	1uF	Capacitor, Ceramic, 16V, X7R, 20%	0603	C1608X7R1C105M	TDK
1	C17	0.033uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H333K	TDK
1	C18	220pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H221K	TDK
1	C19	0.01uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H103K	TDK
1	C21	0.022uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H223K	TDK
1	C22	4.7uF	Capacitor, Ceramic, 16V, X7R, 15%	0805	Std	Std
1	C5	0.047uF	Capacitor, Ceramic, 250-V, X7R	1206	C3216X7R2E473M	TDK
2	C6, C7	1000uF	Capacitor, Aluminum, 6.3V, 20%	0.315 inch	6.3V ZL 1000uF 10 X 12.5mm	Rubycon
3	C8, C9, C10	47uF	Capacitor, Ceramic, 6.3-V, X5R, 20%	1210	Std	Std
7	D1, D2, D3, D4, D5, D6, D7	MMSD914	Diode, Switching, 100-V, 200-mA, 225-mW	SOD-123	MMSD914T1	On Semi
3	J1, J2, J5	8600-0-05-xx-00-00-03-0	Header, Single pin	0.072 x 1	8600-0-05-01-00-00-03-0	Mill-Max
2	J3, J4	8952-0-05-xx-00-00-03-0	Header, Single pin	0.125 x 1	8952-0-05-01-00-00-03-0	Mill-Max
1	L1	1.2uH	Inductor, SMT, 37-A, 0.9-milliohm	0.790 x 0.770 inch	SER2010-122ML	Coilcraft
1	L2	1mH	Inductor, SMT, 0.1A, 14ohm	0.26x0.09 inch	DO1608C-105ML	Coilcraft
4	Q1, Q2, Q8, Q9	CSD16401Q5A-R	MOSFET, NChan, 25V, 37A, 1.3milliOhm	QFN5X6mm	CSD16401Q5A-R	TI
1	Q3	IRF6216	MOSFET, P-ch, 150-V, 2.2-A, 240-milliOhms	SO8	IRF6216	International Rectifier
2	Q4, Q5	SI7738DP	MOSFET, NChan, 150V, 30A, 38milliohm	PWRPAK S0-8	SI7738DP	
1	Q6	MMBT3904	Bipolar, NPN, 40-V, 200-mA	SOT23	MMBT3904LT1	On Semi
1	Q7	MMBT3906	Bipolar, PNP, 40-V, 200-mA	SOT23	MMBT3906LT1	On Semi
2	R1, R2	5	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R10	1.65k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R11	7.5k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R12, R13	75k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R14, R17	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R15	49.9k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R19, R24	DNP	Do Not Populate	0603	N/A	N/A
1	R20	301	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R25	6.04k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	R3, R21, R23	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R4, R5	0.05	Resistor, Chip, 1-W, 1%	2512	Std	Std
4	R6, R16, R18, R22	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R7, R9	100k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R8	3.74k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	T1	JA4309-AL	Transformer, Planar	20.57 x 23.37 mm	JA4309-AL	Coilcraft
1	TP1	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100	5000	Keystone
1	U1	UCC2897APW	IC, Current-Mode Active Clamp PWM Controller	PW20	UCC2897APW	Texas Instruments
1	U2	TCMT1107	IC, Photocoupler, CTR = 80% - 160%	MF4	TCMT1107	Vishay
1	U3	TLV431ADBZ	IC, Low-Voltage Adjustable Shunt Regulator	SOT23-3	TLV431AIDBZ	TI

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