

PMP5124_REVC 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
1	C10	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
1	C11	22uF	Capacitor, Aluminum, 16V, 20%	0.201 x 0.262 inch	EEVFK1C220R	Panasonic
1	C12	1000pF	Capacitor, Ceramic, 2kV, COG, 10%	1812	Std	Std
2	C13, C14	1uF	Capacitor, Ceramic, 16V, X7R, 20%	0603	C1608X7R1C105M	TDK
1	C15	0.047uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H103K	TDK
1	C16	220pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H221K	TDK
2	C17, C18	0.01uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H102K	TDK
1	C19	4.7uF	Capacitor, Ceramic, 16V, X5R, 15%	0805	Std	Std
2	C5, C9	100pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H101K	TDK
1	C6	0.047uF	Capacitor, Ceramic, 250-V, X7R	1206	C3216X7R2E473M	TDK
1	C7	100uF	Capacitor, Aluminum, 16V, 20%, FK Series	0.217 x 0.169	EEVFK1C101P	Panasonic
1	C8	22uF	Capacitor, Ceramic, 16-V, X7R, 20%	1210	C3225X7R1C226MT	TDK
8	D1, D2, D4, D5, D6, D8, D9, D10	BAS16	Diode, Switching, 75V, 200mA	SOT23	BAS16LT1	On Semiconductor
2	D3, D7	12V	Diode, Zener, 12-V	SOT23	BZX84C12LT1	ON Semiconductor
3	J1, J2, J3	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST
1	L1	16uH	Inductor, SMT, 9A, 9.1milliohms	0.750 x 0.875 inch	PA2729.173NL	Pulse
1	L2	1mH	Inductor, SMT, 60mA	0.244 x 0.244 inch	PG0087.105NL	Pulse
2	Q1, Q2	BCX5616	Transistor, NPN, 80V	SOT-89	BCX5616TA	Diodes
1	Q3	IRF7494	MOSFET, N-Chan, 150V, 44 miliohm, 5.2A	SO8	IRF7494	IR
1	Q4	IRF6216	MOSFET, P-ch, 150-V, 2.2-A, 240-milliOhms	SO8	IRF6216	International Rectifier
1	Q5	MMBT2907	Bipolar, PNP, 60V, 600mA	SOT23	MMBT2907LT1	On Semiconductor
2	Q6, Q7	IRF7855	MOSFET, N-Chan, 60V, 9.4 miliohm, 12A	SO8	IRF7855PbF	IR
2	R1, R3	2k	Resistor, Chip, 1/4W, 5%	1210	Std	Std
1	R10	7.5k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R12	57.6k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R15, R16	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R17	2k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	R2, R18, R20	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R21	2.61k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R4	0.056	Resistor, Chip, 1-W, 1%	2512	Std	Std
4	R5, R7, R11, R13	75k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R6	2.80k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	R8, R14, R19	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R9	1.50k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	T1	100 uH	Transformer, Forward, ± 20%	1.220 x 1.420 inch	PA2396ANL	Pulse
2	TP1, TP2	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
2	TP3, TP4	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
1	TP5	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	TL431AIDBZ	IC, Precision Adjustable Shunt Regulator	SOT23-3	TL431AIDBZ	TI

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