

PMP4028_REVB BOM

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
4	C11, C12, C101, C102	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
1	C13	22uF	Capacitor, Aluminum, 16V, 20%	0.201 x 0.262 inch	EEVFK1C220R	Panasonic
1	C14	DNP	Do Not Populate	1812	N/A	N/A
2	C15, C16	1uF	Capacitor, Ceramic, 16V, X7R, 20%	0603	C1608X7R1C105M	TDK
1	C17	0.047uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H103K	TDK
1	C18	220pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H221K	TDK
3	C19, C22, C103	0.01uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H102K	TDK
4	C2, C3, C4, C5	2.2uF	Capacitor, Ceramic, 100-V, X7R, 20%	1210	C3225X7R2A225M	TDK
1	C23	4.7uF	Capacitor, Ceramic, 16V, X5R, 15%	0805	Std	Std
2	C6, C100	100pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H101K	TDK
1	C7	0.047uF	Capacitor, Ceramic, 250-V, X7R	1206	C3216X7R2E473M	TDK
1	C8	100uF	Capacitor, Aluminum, 16V, 20%, FK Series	0.217 x 0.169	EEVFK1C101P	Panasonic
2	C9, C10	22uF	Capacitor, Ceramic, 16-V, X7R, 20%	1210	C3225X7R1C226MT	TDK
7	D1, D3, D4, D5, D7, D8, D100	BAS16	Diode, Switching, 75V, 200mA	SOT23	BAS16LT1	On Semiconductor
1	D101	B220-13	Diode, Schottky, 2A, 20V	SMB	B220-13	Diodes Inc.
2	D2, D6	12V	Diode, Zener, 12-V	SOT23	BZX84C12LT1	ON Semiconductor
4	J1, J2, J3, J100	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST
1	L1	7.8uH	Inductor, SMT, 13.3A, 5.1milliohms	0.750 x 0.875 inch	PA2050-782NL	Pulse
1	L2	1mH	Inductor, SMT, 60mA	0.244 x 0.244 inch	PG0087.105NL	Pulse
2	Q1, Q8	FZT651	Transistor, NPN, 60V, 3A	SOT223	FZT651	Zetex
1	Q100	FDS4435	MOSFET, Pch, -30V, -8.8A, 20-milliohm	SO8	FDS4435	Fairchild
1	Q12	IRF6216	MOSFET, P-ch, 150-V, 2.2-A, 240-milliohms	SO8	IRF6216	International Rectifier
2	Q2, Q4	IRF7494	MOSFET, N-Chan, 150V, 44 miliohm, 5.2A	SO8	IRF7494	IR
4	Q5, Q7, Q10, Q11	IRF7855	MOSFET, N-Chan, 60V, 9.4 miliohm, 12A	SO8	IRF7855PbF	IR
1	Q6	MMBT2222A	Bipolar, NPN, 40V, 600mA	SOT23	MMBT2222ALT1	ON Semiconductor
1	Q9	MMBT2907	Bipolar, PNP, 60V, 600mA	SOT23	MMBT2907LT1	On Semiconductor
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	R100	0.01	Resistor, Chip, 1/2W, 5%	2010	Std	Std
1	R101	2k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	R11, R12, R102	75k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R13	49.9k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R15	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R17	4.99k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
4	R2, R20, R23, R103	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R22	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R24	2.61k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R4	0.02	Resistor, Chip, 1-W, 1%	2512	Std	Std
2	R5, R7	100k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R6	3.74k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
4	R8, R14, R18, R19	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R9	1.74k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	T1	PA2396NL	Transformer, Custom, Forward	1.160 x 1.524 inch	PA2396NL	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	U100	INA202	IC, High-Side Measurement C/Shunt Monitor	MSOP-8	INA202	TI
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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