

**PMP4074\_REVB BOM**

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
4	C14, C15, C23, C105	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
1	C16	22uF	Capacitor, Aluminum, 16V, 20%	0.201 x 0.262 inch	EEVFK1C220R	Panasonic
1	C17	1000pF	Capacitor, Ceramic, 2kV, C0G	1812	Std	Std
2	C18, C19	1uF	Capacitor, Ceramic, 16V, X7R, 20%	0603	C1608X7R1C105M	TDK
4	C2, C3, C4, C5	2.2uF	Capacitor, Ceramic, 100-V, X7R, 20%	1210	C3225X7R2A225M	TDK
1	C20	0.047uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H103K	TDK
1	C21	220pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H221K	TDK
2	C22, C25	0.01uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H102K	TDK
1	C26	22uF	Capacitor, Ceramic, 10V, X5R, 15%	1206	Std	Std
1	C7	0.047uF	Capacitor, Ceramic, 250-V, X7R	1206	C3216X7R2E473M	TDK
1	C8	100uF	Capacitor, Aluminum, 16V, 20%	0.260 x 0.276 inch	EEVFK1C101P	Panasonic
10	C9, C10, C11, C12, C13, C100, C101, C102, C103, C104	47uF	Capacitor, Ceramic, 10-V, X5R, 20%	1210	C3225X5R1A476M	TDK
1	D100	18V	Diode, Zener, 18-V	SOT23	BZX84C18LT1	ON Semiconductor
2	D101, D102	MMSD914	Diode, Switching, 100-V, 200-mA, 225-mW	SOD-123	MMSD914T1	On Semi
4	D3, D4, D5, D6	BAS16	Diode, Switching, 75V, 200mA	SOT23	BAS16LT1	On Semiconductor
3	J1, J2, J3	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST
1	L1	2.2uH	Inductor, SMT, 24.3-A, 2.3-milliohm	0.785 x 0.855 inch	HC2LP-2R2-R	Coiltronics
1	L2	1mH	Inductor, SMT, 60mA	0.244 x 0.244 inch	PG0087.105NL	Pulse
3	Q1, Q4, Q100	MMBT2222A	Bipolar, NPN, 40V, 600mA	SOT23	MMBT2222ALT1	ON Semiconductor
2	Q2, Q5	IRF7494	MOSFET, N-Chan, 150V, 44 milliohm, 5.2A	SO8	IRF7494	IR
1	Q3	Si2325DS	MOSFET, P-ch, -150 V, 690-mA, 1.2 Ohms	SOT-23	Si2325DS	Vishay
4	Q6, Q7, Q8, Q11	Si7386DP	MOSFET, NChan, 30V, 19A, 7milliohm	PWRPAK S0-8	Si7386DP	
3	Q9, Q10, Q101	MMBT2907	Bipolar, PNP, 60V, 600mA	SOT23	MMBT2907LT1	On Semiconductor
1	R1	10	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R101, R102	4.12k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R104, R105	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R106	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R12	75k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R13	49.9k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R16	499	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R2	200	Resistor, Chip, 1/16W, 1%	0603	Std	Std
6	R3, R10, R20, R22, R100, R103	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R4	0.022	Resistor, Chip, 1-W, 1%	2512	Std	Std
5	R5, R14, R17, R18, R19	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	R6, R8, R11	100k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R7	3.57k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R9	2k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	T1	PA2710NL	Xfmr, Custom, Forward	1.160 x 1.524 inch	PA2710NL	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
3	TP5, TP100, TP101	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	TLV271IDBV	IC, Micropower Op Amp	SOT_23_5 (DBV)	TLV271IDBV	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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