

PMP31375 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB1	1		PMP31375	Any	Printed Circuit Board	
C1, C2	2	1nF	8853522100131	Würth Elektronik	Multilayer Ceramic Chip Safety Capacitor, size 1808, X7R Class II, 1nF, 250VAC	
C3	1	10uF	GRM32ER71H106KA12L	MuRata	CAP, CERM, 10 uF, 50 V, +/- 10%, X7R, 1210	1210
C4	1	1000pF	GRM31BR72J102KW01L	MuRata	CAP, CERM, 1000 pF, 630 V, +/- 10%, X7R, 1206	1206
C5, C6	2	470uF	EK1V471MP51016EU	Chinsan (Elite)	Aluminum Electrolytic Capacitor, Radial, THT, D10 x H15.5mm, 470µF, 35V	
C7, C13	2	1uF	UMK107AB7105KA-T	Taiyo Yuden	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0603	603
C8	1	0.1uF	C1210C104KBRAC7800	Kemet	CAP, CERM, 0.1 uF, 630 V, +/- 10%, X7R, 1210	1210
C9, C10	2	33uF	EKMQ401ELL330ML25S	Chem-Con	CAP, AL, 33 uF, 400 V, +/- 20%, 105C, TH	16x26.5
C11	1	330nF	890324024003	Würth	0.33 µF Film Capacitor 275V Polypropylene (PP), Metallized Radial	RADIAL
C12, C20, C21, R20	4	DNP	DNP	N/A	DNP	603
C14	1	33uF	C2012X5R1A336M125AC	TDK	CAP, CERM, 33 uF, 10 V, +/- 20%, X5R, 0805	805
C15, C17	2	0.01uF	C0603C103K5RACTU	Kemet	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0603	603
C16, C19	2	100pF	C0603C101J5GACTU	Kemet	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	603
C18	1	4700pF	C0603C472J5RACTU	Kemet	CAP, CERM, 4700 pF, 50 V, +/- 5%, X7R, 0603	603
C22	1	2.2uF	GRM21BR71E225KA73L	MuRata	CAP, CERM, 2.2 uF, 25 V, +/- 10%, X7R, 0805	805
C23	1	0.1uF	C1608X7R1H104K080AA	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	603
D1	1	GBU407	GBU407	Taiwan Semiconductor	Diode, P-N-Bridge, 1000 V, 4 A, TH	GBU
D2	1	150V	SMCJ150A-TP	Micro Commercial Component	Diode, TVS, Uni, 150 V, 243 Vc, SMC	SMC
D3, D4, D5	3	800V	RS07K-GS	Vishay-Semiconductor	Diode, Fast Rectifier, 800 V, 1 A, DO-219AB	DO-219AB
F1	1	3.15 A	RSTA 3.15-BULK	Bel Fuse	Fuse, 3.15 A, 250 VAC, 63 VDC, TH	8.35x4mm
L1	1	2.2mH	744824622	Würth Elektronik	Coupled inductor, 2.2 mH, 0.02 ohm, TH	18.5x33x27.5 mm
Q1	1	YJG028G15H	YJG028G15H	Yangjie Electronic Technology	MOSFET, N-CH, 150 V, 28mOhm, PG-TDSON-8	PG-TDSON-8
R1, R2	2	30	RC1206FR-0730RL	Yageo America	RES, 30.0, 1%, 0.25 W, 1206	1206
R3, R10	2	49.9	RC0603FR-0749R9L	Yageo	RES, 49.9, 1%, 0.1 W, 0603	603
R5	1	DNP	DNP	N/A	DNP	805
R7, R11, R13	3	28.7k	RC0603FR-0728K7L	Yageo	RES, 28.7 k, 1%, 0.1 W, 0603	603
R8	1	0	CR160000F	Meritek Electronics	0 Ohms ±1% Chip Resistor 0603 (1608 Metric) Thick Film	603
R9	1	10.0k	RC0603FR-0710KL	Yageo	RES, 10.0 k, 1%, 0.1 W, 0603	603
R12	1	6.34k	RC0603FR-076K34L	Yageo	RES, 6.34 k, 1%, 0.1 W, 0603	603
R14	1	15.0k	RC0603FR-0715KL	Yageo	RES, 15.0 k, 1%, 0.1 W, 0603	603
R15	1	5.23k	RC0603FR-075K23L	Yageo	RES, 5.23 k, 1%, 0.1 W, 0603	603
R16	1	232k	RC0603FR-07232KL	Yageo America	RES, 232 k, 1%, 0.1 W, 0603	603
R17	1	332	RC0603FR-07332RL	Yageo	RES, 332, 1%, 0.1 W, 0603	603
R18	1	47.0k	RC0603FR-0747KL	Yageo	RES, 47.0 k, 1%, 0.1 W, 0603	603
R19	1	27.0k	RC0603FR-0727KL	Yageo	RES, 27.0 k, 1%, 0.1 W, 0603	603
R100	1	2.2	CRCW06032R20JNEA	Vishay	RES Thick Film, 2.2Ω, 5%, 0.1W, 200ppm/°C, 0603	603
RT1	1	4.7	B57237S0479M000	TDK	Thermistor NTC, 4.70 ohm, 20%, 15x7mm	15x7mm
RV1	1	430V	B72214S0271K101	TDK	Varistor, 430V, 4.5KA, TH	Disc, 14x5mm
T1	1	See test report for details	Custom RM10	Raw materials from TDK	Flyback Transformer	RM10
TP1, TP6	2		5001	Keystone Electronics	Test Point, Miniature, Black, TH	Black Miniature Testpoint
TP2, TP4	2		5000	Keystone Electronics	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP3	1		5003	Keystone Electronics	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
TP8, TP9	2		5012	Keystone Electronics	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint

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TP10	1		5010	Keystone Electronics	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
TP11	1		5011	Keystone Electronics	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
U1	1	UCC24612-1DBVR	UCC24612-1DBVR	Texas Instruments	High-Frequency Multi-Mode Synchronous Rectifier Controller, DBV0005A (SOT-23-5)	DBV0005A
U2	1	UCG28826	UCG28826	Texas Instruments	UCG28826	VQFN12
U3	1	VOL618A-2T	VOL618A-2T	Vishay-Semiconductor	Optocoupler, 5 kV, 63-125% CTR, SMT	8x2x4mm
U4	1	ATL431AIDBZR	ATL431AIDBZR	Texas Instruments	2.5V Low Iq Adjustable Precision Shunt Regulator, DBZ0003A (SOT-23-3)	DBZ0003A

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Last updated 10/2025