

PMP30047 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	56pF	C1608C0G1H560J	TDK	CAP, CERM, 56 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C2, C5, C11, C12, C16, C21	6	1uF	C2012X7R1H105K125AB	TDK	CAP, CERM, 1 μF, 50 V, +/- 10%, X7R, 0805	0805
C3	1	0.022uF	C1608X7R1H223K	TDK	CAP, CERM, 0.022uF, 50V, +/-10%, X7R, 0603	0603
C4, C6	2	47uF	EKXJ451ELL470ML25S	United Chemi-con	CAP, AL, 47 μF, 450 V, +/- 20%, TH	RCAP, 16x25mm
C7, C20	2	1000pF	C1608C0G1H102J	TDK	CAP, CERM, 1000 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C8	1	100pF	C1608C0G1H101J	TDK	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	0603
C9	1	0.01uF	C1608C0G1E103J	TDK	CAP, CERM, 0.01 μF, 25 V, +/- 5%, C0G/NP0, 0603	0603
C10, C13	2	220pF	GRM31A7U3A221JW31D	MuRata	CAP, CERM, 220 pF, 1000 V, +/- 5%, U2J, 1206	1206
C14, C18	2	330μF	EMVY500ARA331MKE0S	Chemi-Con	CAP, AL, 330 μF, 50 V, +/- 20%, SMD	KE0
C15, C17, C22, C23	4	0.1uF	C1608X7R1H104K	TDK	CAP, CERM, 0.1 μF, 50 V, +/- 10%, X7R, 0603	0603
C19	1	2200pF	C1608C0G1H222J	TDK	CAP, CERM, 2200 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C24	1	68pF	GRM31A7U3A680JW31D	MuRata	CAP, CERM, 68 pF, 1000 V, +/- 5%, U2J, 1206	1206
C100	1	47uF	EEU-FM1E470	Panasonic	CAP, AL, 47 μF, 25 V, +/- 20%, 0.3 ohm, TH	5.0x11.0mm
C101	1	0.33uF	C1608X7R1H334K080AC	TDK	CAP, CERM, 0.33 μF, 50 V, +/- 10%, X7R, 0603	0603
C102	1	10uF	C1608X5R1A106M080AC	TDK	CAP, CERM, 10 μF, 10 V, +/- 20%, X5R, 0603	0603
C103	1	4700pF	DE2E3KY472MB3BM02F	MuRata	CAP, CERM, 4700 pF, 250 V, +/- 20%, E, 10x5x13mm	10x5x13mm
D1	1	DF10SA	DF10SA	Vishay-Semiconductor	Diode, Switching-Bridge, 1000 V, 1 A, DF-S	DF-S
D2, D8, D9, D12, D13, D100, D101, D102, D103	9	1N4148	1N4148W-7-F	Diodes Inc.	Diode, Ultrafast, 100 V, 0.15 A, SOD-123	SOD-123
D3	1	13V	MMSZ5243BS-7-F	Diodes Inc.	Diode, Zener, 13 V, 200 mW, SOD-323	SOD-323
D4	1	BYD77D	BYD77D	NXP	Diode, Switching, 200 V, 0.85 A, SOD87	SOD87
D5	1	US1K-13-F	US1K-13-F	Diodes Inc.	Diode, Fast Rectifier, 800 V, 1 A, SMA	SMA
D6, D7	2	110V	SMCJ110A	Littelfuse	Diode, TVS, Uni, 110 V, 1500 W, SMC	SMC
D10	1	FEP16DT-E3/45	FEP16DT-E3/45	Diodes Inc.	Diode, Dual Common Cathode Ultrafast, 200 V, 16 A, TO-220AB	TO-220AB
D11	1	9.1V	MMSZ5239BS-7-F	Diodes Inc.	Diode, Zener, 9.1 V, 200 mW, SOD-323	SOD-323
F1	1	3.15A	39213150000	Littelfuse	Fuse, 3.15A, 250V, TH	8x8.5x4mm
HS1, HS2	2	8.6C/W	SW50-2	Aavid	HEATSINK TO-218/TO-247 W/PINS 2"	12.5x50x34.5 mm
J1, J2	2		PEC01DAAN	Sullins Connector Solutions	Header, 2.54mm, 1x2, Tin, Black, TH	Header, 2.54mm, 2x1, TH
P1, P3, P4, P5, P6, P7, P8, P9, P10, P11, P12, P13, P14	13	White	5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
Q1	1	BSP135	BSP135 L6433	Infineon Technologies	MOSFET, N-CH, 600 V, 0.12 A, SOT-223	SOT-223
Q2	1	BCP56	BCP56-10T3G	ON Semiconductor	TRANS NPN 80V 1A SOT-223	SOT-223
Q3	1	IPA80R650CE	IPA80R650CEXKSA1	Infineon Technologies	MOSFET, N-CH, 800 V, 24 A, TO-220 FP	TO-220 FP
Q4	1	BC846BLT1G	BC846BLT1G	ON Semiconductor	Transistor, NPN, 65 V, 0.1 A, SOT-23	SOT-23
R1	1	2.00Meg	CRCW06032M00FKEA	Vishay-Dale	RES, 2.00 M, 1%, 0.1 W, 0603	0603
R2	1	30.1k	CRCW080530K1FKEA	Vishay-Dale	RES, 30.1 k, 1%, 0.125 W, 0805	0805
R3	1	10.0k	CRCW251210K0FKEG	Vishay-Dale	RES, 10.0 k, 1%, 1 W, 2512	2512
R4, R25	2	6.49k	CRCW06036K49FKEA	Vishay-Dale	RES, 6.49 k, 1%, 0.1 W, 0603	0603
R5, R13	2	22.1k	CRCW080522K1FKEA	Vishay-Dale	RES, 22.1 k, 1%, 0.125 W, 0805	0805
R6	1	10.0	CRCW080510R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.125 W, 0805	0805
R7	1	4.75	CRCW06034R75FKEA	Vishay-Dale	RES, 4.75, 1%, 0.1 W, 0603	0603

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R8, R15	2	2.21k	CRCW06032K21FKEA	Vishay-Dale	RES, 2.21 k, 1%, 0.1 W, 0603	0603
R9	1	4.99k	CRCW06034K99FKEA	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, 0603	0603
R10	1	0.2	CSRN2010FKR200	Stackpole Electronics Inc	RES, 0.2, 1%, 1 W, 2010	2010
R11, R14	2	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R12	1	33	CRCW201033R0JNEF	Vishay-Dale	RES, 33, 5%, 0.75 W, 2010	2010
R16	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R17, R23	2	6.65k	CRCW06036K65FKEA	Vishay-Dale	RES, 6.65 k, 1%, 0.1 W, 0603	0603
R18	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00k ohm, 1%, 0.1W, 0603	0603
R19	1	47.5k	CRCW060347K5FKEA	Vishay-Dale	RES, 47.5 k, 1%, 0.1 W, 0603	0603
R20	1	0.05	MSR1-0R05F1	Riedon	RES, Bare Element Resistor, 0.05 Ohm, 1 W, 11.4x1.7mm	11.4x1.7mm
R21, R22	2	22.1k	CRCW060322K1FKEA	Vishay-Dale	RES, 22.1 k, 1%, 0.1 W, 0603	0603
R24	1	5.49k	CRCW06035K49FKEA	Vishay-Dale	RES, 5.49 k, 1%, 0.1 W, 0603	0603
R26	1	150	CRCW2010150RFKEF	Vishay-Dale	RES, 150, 1%, 0.75 W, 2010	2010
R100	1	33.2k	CRCW060333K2FKEA	Vishay-Dale	RES, 33.2 k, 1%, 0.1 W, 0603	0603
RT1	1	15 ohm	B57237S150M	TDK	Thermistor NTC, 15 ohm, 20%, 15x7mm	15x7mm
T1	1	550uH	TBD	TBD	Transformer, Flyback DCM, 550uH, Custom on ETD34, TH	ETD34
TP1, TP2	2	Double	1502-2	Keystone	Terminal, Turret, TH, Double	Keystone1502-2
TP3, TP5, TP6	3	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP4, TP7	2	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U1	1	LM5023MM-2	LM5023MM-2	Texas Instruments	AC-DC Quasi-Resonant Current Mode PWM Controller, DGK0008A	DGK0008A
U2	1	PC817A	PC817A	Sharp Microelectronics	Optocoupler, 5 kV, 50% min CTR, TH	DIP-4
U3	1	LM2904D	LM2904D	Texas Instruments	Dual Low Power Op Amp, D0008A	D0008A
U4	1	LMP8480T	LMP8480MME-T/NOPB	Texas Instruments	Precision 76V High-Side Current Sense Amplifiers with Voltage Output, DGK0008A	DGK0008A
U5	1	TL431A	TL431AIDBZR	Texas Instruments	Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, -40 to 85 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A

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