

PMP40060 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	0.047uF	B32921C3473K	TDK	CAP, Film, 0.047 µF, 630 V, +/- 10%, TH	B32921_11mm
C2, C29	2	10uF	UCY2G100MPD1TD	Nichicon	CAP, AL, 10 µF, 400 V, +/- 20%, TH	D10xL16
C3	1	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1 µF, 25 V, +/- 5%, X7R, 0603	0603
C4	1	10uF	0805YD106MAT2A	AVX	CAP, CERM, 10 µF, 16 V, +/- 20%, X5R, 0805	0805
C6	1	1000pF	GRM31A7U2J102JW31D	MuRata	CAP, CERM, 1000 pF, 630 V, +/- 5%, U2J, 1206	1206
C7	1	0.1uF	C0805C104K5RACAUTO	Kemet	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 0, 0805	0805
C8	1	1uF	C3216X7R1H105K	TDK	CAP, CERM, 1 µF, 50 V, +/- 10%, X7R, 1206	1206
C9	1	6800pF	GRM188R71H682KA01D	MuRata	CAP, CERM, 6800 pF, 50 V, +/- 10%, X7R, 0603	0603
C10	1	0.22uF	06033D224KAT2A	AVX	CAP, CERM, 0.22 µF, 25 V, +/- 10%, X5R, 0603	0603
C11	1	0.22uF	DNP	DNP	CAP, CERM, 0.22 µF, 25 V, +/- 10%, X5R, 0603	0603
C12	1	2200pF	08051C222JAT2A	AVX	CAP, CERM, 2200 pF, 100 V, +/- 5%, X7R, 0805	0805
C14, C28, C31	3	560uF	6SEPC560MW	Panasonic	CAP, AL, 560 µF, 6.3 V, +/- 20%, 0.007 ohm, TH	6.3x9mm
C15	1	1uF	C1608X5R1E105K080AC	TDK	CAP, CERM, 1 µF, 25 V, +/- 10%, X5R, 0603	0603
C21	1	10uF	C1206C106K3RACTU	Kemet	CAP, CERM, 10 µF, 25 V, +/- 10%, X7R, 1206_190	1206_190
C22	1	22uF	EKXG401ELL220MK20S	Chemi-Con	CAP, AL, 22 µF, 400 V, +/- 20%, TH	12.5x20mm
C26	1	220pF	DE6B3KJ221KN3A	MuRata	CAP, CERM, 220 pF, 300 V, +/- 10%, B, TH, 2- Leads, Body 8x7mm, Pin Spacing 7.5mm	TH, 2- Leads, Body 8x7mm, Pin Spacing 7.5mm
D1	1	800V	3KBP08M-E4/45	Vishay-Semiconductor	Diode, Switching-Bridge, 800 V, 3 A, TH	KBPM
D2	1	600V	ES1J-LTP	Micro Commercial Component	Diode, Superfast Rectifier, 600 V, 1 A, SMA	SMA
D3, D6	2	200V	BAS20HT1G	ON Semiconductor	Diode, Switching, 200 V, 0.2 A, AEC-Q101, SOD-323	SOD-323
D4	1	3.3V	MMSZ4684-V	Vishay-Semiconductor	Diode, Zener, 3.3 V, 500 mW, SOD-123	SOD-123
D7	1	40V	B140-13-F	Diodes Inc.	Diode, Schottky, 40 V, 1 A, SMA	SMA
D8	1	30V	BAT43W-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOD-123	SOD-123
D9	1	11V	BZT52C11-7-F	Diodes Inc.	Diode, Zener, 11 V, 500 mW, SOD-123	SOD-123
D10	1	30V	BAT54HT1G	ON Semiconductor	Diode, Schottky, 30 V, 0.2 A, SOD-323	SOD-323
D13	1	5.1V	MMSZ4689-V	Vishay-Semiconductor	Diode, Zener, 5.1 V, 500 mW, SOD-123	SOD-123
F1	1		39213150000	Littelfuse	Fuse, 3.15 A, 250 V, TH	8x8.5x4mm
J1, J3	2		20-0000016-01	Lintes Technology	Connector, Receptacle, USB Type C, R/A, SMT	Connector, Receptacle, USB Type C, SMT
J2	1		PPPC072LFBN-RC	Sullins	Receptacle, 2.54mm,7x2, TH	Receptacle, 2.54mm,7x2, TH
L1	1	4mH	744821240	Würth Elektronik	Coupled inductor, 4 mH, 1.5 A, 0.14 ohm, +/- 30%, TH	15 x 18 x 7.5mm
L2	1	100uH	7447462101	Würth Elektronik	Inductor, Unshielded Drum Core, Ferrite, 100 µH, 0.8 A, 0.457 ohm, TH	D6 x 8.5mm
L3	1	270nH	74477450027	Würth Elektronik	Inductor, Drum Core, Ferrite, 270 nH, 8.2 A, 0.0044 ohm, SMD	WE-PD2-MS
Line, Neutral	2	Blue	DNP	DNP	DNP	DNP
Q1	1	650V	AOW25S65	AOS	MOSFET, N-CH, 650 V, 25 A, TO-262	TO-262
Q2	1	100V	CSD19533Q5A	Texas Instruments	MOSFET, N-CH, 100 V, 13 A, SON 5x6mm	SON 5x6mm
Q5, Q6	2	40 V	MMBT3904	Fairchild Semiconductor	Transistor, NPN, 40 V, 0.2 A, SOT-23	SOT-23
R1	1	430	CRCW0805430RJNEA	Vishay-Dale	RES, 430, 5%, 0.125 W, 0805	0805
R2, R54	2	100k	CRCW1206100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.25 W, 1206	1206
R4, R5	2	10	AC03000001019JAC00	Vishay Draloric	RES, 100, 5%, 3 W, Axial resistor	Axial resistor
R9	1	51k	CRCW060351K0JNEA	Vishay-Dale	RES, 51 k, 5%, 0.1 W, 0603	0603

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R12	1	15.0k	CRCW060315K0FKEA	Vishay-Dale	RES, 15.0 k, 1%, 0.1 W, 0603	0603
R16, R37	2	1.00	CRCW06031R00FKEA	Vishay-Dale	RES, 1.00, 1%, 0.1 W, 0603	0603
R17	1	470	CRCW0603470RJNEA	Vishay-Dale	RES, 470, 5%, 0.1 W, 0603	0603
R18, R51	2	0.68	ERJ-8RQFR68V	Panasonic	RES, 0.68, 1%, 0.25 W, 1206	1206
R19	1	100k	CPF0603B100KE	TE Connectivity	RES, 100 k, 0.1%, 0.063 W, 0603	0603
R20	1	200	CRCW0603200RFKEA	Vishay-Dale	RES, 200, 1%, 0.1 W, 0603	0603
R21	1	2.00k	CRCW06032K00FKEA	Vishay-Dale	RES, 2.00 k, 1%, 0.1 W, 0603	0603
R22, R24	2	68k	CRCW060368K0JNEA	Vishay-Dale	RES, 68 k, 5%, 0.1 W, 0603	0603
R23, R35	2	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R33	1	10.0	CRCW120610R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.25 W, 1206	1206
R34	1	150k	CRCW0603150KFKEA	Vishay-Dale	RES, 150 k, 1%, 0.1 W, 0603	0603
R36, R52	2	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, 0603	0603
R38	1	110k	CRCW0603110KJNEA	Vishay-Dale	RES, 110 k, 5%, 0.1 W, 0603	0603
R39, R45, R46	3	47k	CRCW060347K0JNEA	Vishay-Dale	RES, 47 k, 5%, 0.1 W, 0603	0603
R44	1	0.005	WSL12065L000FEA	Vishay-Dale	RES, 0.005, 1%, 0.25 W, 1206	1206
R55, R56	2	1.00Meg	ERJ-8ENF1004V	Panasonic	RES, 1.00 M, 1%, 0.25 W, 1206	1206
R57	1	2.00	CRCW08052R00FKEA	Vishay-Dale	RES, 2.00, 1%, 0.125 W, 0805	0805
R58	1	39k	CRCW060339K0JNEA	Vishay-Dale	RES, 39 k, 5%, 0.1 W, 0603	0603
R59	1	10k	CRCW080510K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.125 W, 0805	0805
R60, R61	2	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R62, R63	2	56k	CRCW060356K0JNEA	Vishay-Dale	RES, 56 k, 5%, 0.1 W, 0603	0603
R65	1	3.3k	CRCW06033K30JNEA	Vishay-Dale	RES, 3.3k ohm, 5%, 0.1W, 0603	0603
R66	1	33	CRCW060333R0JNEA	Vishay-Dale	RES, 33 ohm, 5%, 0.1W, 0603	0603
R67, R68	2	680	CRCW0603680RJNEA	Vishay-Dale	RES, 680, 5%, 0.1 W, 0603	0603
T1	1		750343372	Würth Elektronik		
U1	1		UCC28740DR	Texas Instruments	Constant-Voltage, Constant-Current Flyback Controller Using Opto-Coupler Feedback, D0007A	D0007A
U2	1		UCC24636DBVR	Texas Instruments	SYNCHRONOUS RECTIFIER CONTROLLER WITH LOW POWER STANDBY, DBV0006A	DBV0006A
U3	1		TLV431ACDBZR	Texas Instruments	Low Voltage Adjustable Precision Shunt Regulator, 39 ppm / degC, 15 mA, 0 to 70 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
U4	1		FOD817AS	Fairchild Semiconductor	Optocoupler, 5 kV, 80-160% CTR, SMT	DIP-4L Gullwing

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