

PMP40328 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	0.068uF	890324022017CS	Wurth Elektronik	CAP, Film, 0.068 μ F, X2 275 VAC, +/- 10%, TH	10x6mm
C2, C3	2	39uF	EKXJ401ELL390MU20S	Chemi-Con	CAP, AL, 39 μ F, 400 V, +/- 20%, AEC-Q200 Grade 2, TH	D14.5xL20mm
C4, C17, C22, C26, C28	5	10pF	06035A100JAT2A	AVX	CAP, CERM, 10 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
C5, C6, C33, C34	4	0.1uF	C1210C104KBRAC7800	Kemet	CAP, CERM, 0.1 μ F, 630 V,+/- 10%, X7R, 1210	1210
C7, C8	2	680uF	APSG200ELL681MJB5S	Chemi-Con	CAP, AL, 680 μ F, 20 V, +/- 20%, 0.007 ohm, TH	D10x12.5mm
C9, C10	2	22uF	GRM32ER71E226KE15L	MuRata	CAP, CERM, 22 μ F, 25 V,+/- 10%, X7R, 1210	1210
C11, C14	2	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 μ F, 50 V,+/- 10%, X7R, 0603	0603
C12, C30	2	100pF	GRM1885C2A101JA01D	MuRata	CAP, CERM, 100 pF, 100 V,+/- 5%, C0G/NP0, 0603	0603
C13	1	33uF	EKZE350ELL330ME11D	Chemi-Con	CAP, AL, 33 μ F, 35 V, +/- 20%, TH	D5xL11mm
C15	1	1uF	GCM188R71E105KA64D	MuRata	CAP, CERM, 1 μ F, 25 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C16, C20, C21, C27	4	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 μ F, 25 V,+/- 10%, X7R, 0603	0603
C18	1	1uF	GRM216R61E105KA12D	MuRata	CAP, CERM, 1 μ F, 25 V,+/- 10%, X5R, 0805	0805
C19	1	2.2uF	GRM21BR71E225KA73L	MuRata	CAP, CERM, 2.2 μ F, 25 V,+/- 10%, X7R, 0805	0805
C23, C29	2	0.01uF	GRM188R71H103KA01D	MuRata	CAP, CERM, 0.01 μ F, 50 V,+/- 10%, X7R, 0603	0603
C24	1	220pF	GRM1885C1H221JA01D	MuRata	CAP, CERM, 220 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
C25	1	2200pF	GRM1885C1H222JA01D	MuRata	CAP, CERM, 2200 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
C31	1	10uF	GRM219B31E106MA12	MuRata	CAP, CERM, 10 μ F, 25 V,+/- 20%, B, 0805	0805
C32	1	220pF	DE2B3KY221KN3AU02F	MuRata	CAP, CERM, 220 pF, X1 250 VAC/Y2 300 VAC, +/- 10%, B, TH, 2- Leads, Body 7x5mm, Pin Spacing 7.5mm	TH, 2- Leads, Body 7x5mm, Pin Spacing 7.5mm
C35	1	0.1uF	GRM21BR71H104KA01L	MuRata	CAP, CERM, 0.1 μ F, 50 V,+/- 10%, X7R, 0805	0805
D1	1	600V	Z4DGP406L-HF	Comchip Technology	Diode, P-N-Bridge, 600 V, 4 A, Z4-D	Z4-D
D2	1	600V	C3D1P7060Q	Cree	Diode, Schottky, 600 V, 7 A, QFN-33	QFN-33
D3, D8	2	200V	CSFMT104-HF	Comchip Technology	Diode, Superfast Rectifier, 200 V, 1 A, 3.5x1.6mm	3.5x1.6mm
D4	1	9.1V	BZT52C9V1S-7-F	Diodes Inc.	Diode, Zener, 9.1 V, 200 mW, SOD-323	SOD-323
D5	1	18V	CDSOD323-T18	Bourns	Diode, TVS, Uni, 18 V, 45 Vc, SOD-323	SOD-323
D6	1	22V	BZT52C22T-7	Diodes Inc.	Diode, Zener, 22 V, 300 mW, SOD-523	SOD-523
D7	1	30V	BAT43W-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOD-123	SOD-123
D9	1	15V	BZT52C15-7-F	Diodes Inc.	Diode, Zener, 15 V, 370 mW, AEC-Q101, SOD-123	SOD-123
D10	1	200V	BAS20HT1G	ON Semiconductor	Diode, Switching, 200 V, 0.2 A, AEC-Q101, SOD-323	SOD-323
F1	1		39213150000	Littelfuse	Fuse, 3.15 A, 250VAC/VDC, TH	8x8.5x4mm
J1	1		632 723 300 011	Wurth Elektronik	Connector, Receptacle, USB Type C, R/A	Connector, Receptacle, USB Type C, R/A, THT/SMT
J2	1		PPPC072LFBN-RC	Sullins Connector Solutions	Receptacle, 2.54mm, 7x2, Gold, TH	Receptacle, 2.54mm, 7x2, TH
L1	1	33uH	744772330	Wurth Elektronik	Inductor, Wirewound, Ferrite, 33 μ H, 2 A, 0.06 ohm, TH	D7.8xL9.5mm
L2	1	1mH	744821201	Wurth Elektronik	Coupled inductor, 1 mH, 2 A, 0.045 ohm, TH	15 x 18 x 7.5mm
Q1	1	-30V	BSC030P03NS3 G	Infineon Technologies	MOSFET, P-CH, -30 V, -100 A, PG-TDSON-8	PG-TDSON-8
Q2, Q9	2	60V	2N7002	Fairchild Semiconductor	MOSFET, N-CH, 60 V, 115 A, SOT-23	SOT-23

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Q3, Q5	2	600V	IPL60R185C7AUMA1	Infineon Technologies	MOSFET, N-CH, 600 V, 13 A, PG-VSON-4	PG-VSON-4
Q4	1	100V	CSD19532Q5B	Texas Instruments	MOSFET, N-CH, 100 V, 17 A, DNK0008A (VSON-CLIP-8)	DNK0008A
Q6	1	40 V	MMBT3904	Fairchild Semiconductor	Transistor, NPN, 40 V, 0.2 A, SOT-23	SOT-23
Q7	1	600V	BSS126 H6906	Infineon Technologies	MOSFET, N-CH, 600 V, 0.021 A, AEC-Q101, SOT-23	SOT-23
Q8	1	40 V	MMBT3906	Fairchild Semiconductor	Transistor, PNP, 40 V, 0.2 A, SOT-23	SOT-23
Q10	1	100 V	FCX493TA	Diodes Inc.	Transistor, NPN, 100 V, 1 A, SOT-89	SOT-89
R1	1	0.005	WSL12065L000FEA	Vishay-Dale	RES, 0.005, 1%, 0.25 W, 1206	1206
R2, R6, R13, R15, R32, R42, R45	7	10k	CRCW060310K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.1 W, 0603	0603
R3	1	90.9k	CRCW060390K9FKEA	Vishay-Dale	RES, 90.9 k, 1%, 0.1 W, 0603	0603
R4, R10, R12, R14, R17, R18, R46	7	2.2	CRCW06032R20JNEA	Vishay-Dale	RES, 2.2, 5%, 0.1 W, 0603	0603
R5, R36, R40, R41	4	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R7	1	100	CRCW1206100RJNEA	Vishay-Dale	RES, 100, 5%, 0.25 W, 1206	1206
R8, R11	2	4.7	CRCW06034R70JNEA	Vishay-Dale	RES, 4.7, 5%, 0.1 W, 0603	0603
R9	1	10	CRCW060310R0JNEA	Vishay-Dale	RES, 10, 5%, 0.1 W, 0603	0603
R16	1	2.43k	CRCW06032K43FKEA	Vishay-Dale	RES, 2.43 k, 1%, 0.1 W, 0603	0603
R19	1	0.3	CSR1206FKR300	Stackpole Electronics Inc	RES, 0.3, 1%, 0.5 W, 1206	1206
R20	1	0.5	CSR1206FKR500	Stackpole Electronics Inc	RES, 0.5, 1%, 0.5 W, 1206	1206
R21	1	200k	CRCW0603200KFKEA	Vishay-Dale	RES, 200 k, 1%, 0.1 W, 0603	0603
R22, R26	2	1.0k	CRCW06031K00JNEA	Vishay-Dale	RES, 1.0 k, 5%, 0.1 W, 0603	0603
R23	1	51	CRCW060351R0JNEA	Vishay-Dale	RES, 51, 5%, 0.1 W, 0603	0603
R24	1	61.9k	CRCW060361K9FKEA	Vishay-Dale	RES, 61.9 k, 1%, 0.1 W, 0603	0603
R25	1	2.0Meg	CRCW12062M00JNEA	Vishay-Dale	RES, 2.0 M, 5%, 0.25 W, 1206	1206
R27	1	27.4k	CRCW060327K4FKEA	Vishay-Dale	RES, 27.4 k, 1%, 0.1 W, 0603	0603
R28, R47	2	30k	CRCW060330K0JNEA	Vishay-Dale	RES, 30 k, 5%, 0.1 W, 0603	0603
R29, R38	2	182k	CRCW0603182KFKEA	Vishay-Dale	RES, 182 k, 1%, 0.1 W, 0603	0603
R30	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R31	1	200	CRCW0603200RJNEA	Vishay-Dale	RES, 200, 5%, 0.1 W, 0603	0603
R33	1	100k	CRCW0603100KJNEA	Vishay-Dale	RES, 100 k, 5%, 0.1 W, 0603	0603
R34	1	47.5k	CRCW060347K5FKEA	Vishay-Dale	RES, 47.5 k, 1%, 0.1 W, 0603	0603
R35	1	75.0k	CRCW060375K0FKEA	Vishay-Dale	RES, 75.0 k, 1%, 0.1 W, 0603	0603
R37	1	11.0k	CRCW060311K0FKEA	Vishay-Dale	RES, 11.0 k, 1%, 0.1 W, 0603	0603
R39	1	475	CRCW0603475RFKEA	Vishay-Dale	RES, 475, 1%, 0.1 W, 0603	0603
R43	1	1.0k	CRCW08051K00JNEA	Vishay-Dale	RES, 1.0 k, 5%, 0.125 W, 0805	0805
R44	1	20k	CRCW060320K0JNEA	Vishay-Dale	RES, 20 k, 5%, 0.1 W, 0603	0603
RT2	1	100k ohm	NCP18WF104F12RB	MuRata	Thermistor NTC, 100k ohm, 1%, 0603	0603
T1	1		750343705,Rev01	Würth Elektronik	Transformer, 110uH,TH	18x18mm
TP1, TP2	2		1502-2	Keystone	Terminal, Turret, TH, Double	Keystone1502-2
U1	1		UCC27712DR	Texas Instruments	620-V High-Side Low-Side Gate Driver with 2.5A Peak Output and RobustDrive, D0008B (SOIC-8)	D0008B
U2	1		UCC24612-2DBVT	Texas Instruments	UCC24612-2DBV, DBV0005A (SOT-23-5)	DBV0005A
U3	1		UCC28780RTER	Texas Instruments	Active-Clamp Flyback Controller, RTE0016C (WQFN-16)	RTE0016C
U4	1		TLP291(GRL-TP,SE	Toshiba	Optocoupler, 3.75 kV, 100-200% CTR, SMT	SOP, 4-Leads, Body 2.65x4.60mm, Pitch 1.27mm

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U5	1		ATL431BIDBZR	Texas Instruments	2.5V Low Iq Adjustable Precision Shunt Regulator, DBZ0003A (SOT-23-3)	DBZ0003A
U6	1		TL431ACDBZR	Texas Instruments	Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, 0 to 70 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A

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