

PMP4489 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	106CKE450MLU	Illinois Capacitor	CAP, AL, 10 µF, 450 V, +/- 20%, 33.157 ohm, TH	D10x20Lmm
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, C11, C18	3	0.22uF	06033D224KAT2A	AVX	CAP, CERM, 0.22 µF, 25 V, +/- 10%, X5R, 0603	0603
C12	1	2200pF	C0805C222K2RAC	Kemet	CAP, CERM, 2200 pF, 200 V, +/- 10%, X7R, 0805	0805
C14, C28	2	470uF	RL80J471MDNASQKX	Nichicon	CAP, AL, 470 µF, 6.3 V, +/- 20%, 0.008 ohm, TH	D8xL8
C15	1	1uF	C1608X5R1E105K080AC	TDK	CAP, CERM, 1 µF, 25 V, +/- 10%, X5R, 0603	0603
C16	1	22pF	06035A220JAT2A	AVX	CAP, CERM, 22 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C19, C20	2	0.1uF	06033D104KAT2A	AVX	CAP, CERM, 0.1 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
C23	1	150pF	C0603C151J5GACTU	Kemet	CAP, CERM, 150 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C24, C25	2	390pF	GRM188R71H391KA01D	MuRata	CAP, CERM, 390 pF, 50 V, +/- 10%, X7R, 0603	0603
C26	1	2200pF	DE1E3KX222MA4BL01	MuRata	CAP, CERM, 2200 pF, 250 V, +/- 20%, E, Cap, 7x12x9 mm	Cap, 7x12x9 mm
C27	1	330pF	GRM188R72A331KA01D	MuRata	CAP, CERM, 330 pF, 100 V, +/- 10%, X7R, 0603	0603
D1	1	800V	3KBP08M-E4/45	Vishay-Semiconductor	Diode, Switching-Bridge, 800 V, 3 A, TH	KBPM
D2	1	600V	1N4007	Diodes Inc.	Diode, Standard Recovery Rectifier, 600 V, 1 A, PowerDI123	PowerDI123
D3	1	200V	BAS20HT1G	ON Semiconductor	Diode, Switching, 200 V, 0.2 A, AEC-Q101, SOD-323	SOD-323
D4	1	18V	MMSZ4705T1G	ON Semiconductor	Diode, Zener, 18 V, 500 mW, SOD-123	SOD-123
D7	1	100V	SS5P10-M3/86A	Vishay-Semiconductor	Diode, Schottky, 100 V, 5 A, TO-277A	TO-277A
D8	1	30V	BAT43W-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOD-123	SOD-123
D9	1	24V	BZT52C24T-7	Diodes Inc.	Diode, Zener, 24 V, 300 mW, SOD-523	SOD-523
D11	1	100V	1N4148-7-F	Diodes Inc.	Diode, Ultrafast, 100 V, 0.15 A, SOT-123	SOT-123
F1	1		39213150000	Littelfuse	Fuse, 3.15 A, 250 V, TH	8x8.5x4mm
J1	1		20-0000016-01	Lintes Technology	Connector, Receptacle, USB Type C, R/A, SMT	Connector, Receptacle, USB Type C, SMT
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
Line, Neutral	2	Blue	5117	Keystone	Test Point, Miniature, Blue, TH	Blue Miniature Testpoint
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
Q3	1	30V	CSD17579Q5A	Texas Instruments	MOSFET, N-CH, 30 V, 25 A, SON 5x6mm	SON 5x6mm
Q6	1	40 V	MMBT3904-7-F	Diodes Inc.	Transistor, NPN, 40 V, 0.2 A, SOT-23	SOT-23
R2, R54	2	100k	CRCW1206100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.25 W, 1206	1206
R4, R5	2	100	CRCW1206100RFKEA	Vishay-Dale	RES, 100, 1%, 0.25 W, 1206	1206
R7	1	22	CRCW080522R0JNEA	Vishay-Dale	RES, 22, 5%, 0.125 W, 0805	0805
R8	1	100k	CRCW0805100KJNEA	Vishay-Dale	RES, 100 k, 5%, 0.125 W, 0805	0805
R9	1	150k	CRCW0603150KJNEA	Vishay-Dale	RES, 150 k, 5%, 0.1 W, 0603	0603
R12	1	15.0k	CRCW060315K0FKEA	Vishay-Dale	RES, 15.0 k, 1%, 0.1 W, 0603	0603

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R16, R42	2	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 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, R52	2	160k	CRCW0603160KJNEA	Vishay-Dale	RES, 160 k, 5%, 0.1 W, 0603	0603
R20	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R21	1	2.00k	CRCW06032K00FKEA	Vishay-Dale	RES, 2.00 k, 1%, 0.1 W, 0603	0603
R22, R23, R24, R35	4	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R25	1	8.25	CRCW06038R25FKEA	Vishay-Dale	RES, 8.25, 1%, 0.1 W, 0603	0603
R26	1	7.87k	RC0603FR-077K87L	Yageo America	RES, 7.87 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	330k	RC0603FR-07330KL	Yageo America	RES, 330 k, 1%, 0.1 W, 0603	0603
R36	1	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, 0603	0603
R37, R40	2	1.00	CRCW06031R00FKEA	Vishay-Dale	RES, 1.00, 1%, 0.1 W, 0603	0603
R38	1	300k	CRCW0603300KFKEA	Vishay-Dale	RES, 300 k, 1%, 0.1 W, 0603	0603
R39	1	47.0k	RC0603FR-0747KL	Yageo America	RES, 47.0 k, 1%, 0.1 W, 0603	0603
R41	1	200k	CRCW0603200KFKEA	Vishay-Dale	RES, 200 k, 1%, 0.1 W, 0603	0603
R43	1	75.0	CRCW080575R0FKEA	Vishay-Dale	RES, 75.0, 1%, 0.125 W, 0805	0805
R44	1	0.005	WSL12065L000FEA	Vishay-Dale	RES, 0.005, 1%, 0.25 W, 1206	1206
R45, R46	2	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
R47	1	1.00Meg	CRCW06031M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.1 W, 0603	0603
R48	1	220	RC0603FR-07220RL	Yageo America	RES, 220, 1%, 0.1 W, 0603	0603
R55, R56	2	1.00Meg	ERJ-8ENF1004V	Panasonic	RES, 1.00 M, 1%, 0.25 W, 1206	1206
R57, R58	2	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, 0805	0805
R59	1	10k	CRCW080510K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.125 W, 0805	0805
RT1	1		NA	NA	NA	NA
T1	1	200uH	750343141	Würth Elektronik	RM8 Core	
U1	1		UCC28740DR	Texas Instruments	Constant-Voltage, Constant-Current Flyback Controller Using Opto-Coupler Feedback, D0007A	D0007A
U2	1		UCC24630DBVR	Texas Instruments	SYNCHRONOUS RECTIFIER CONTROLLER WITH LOW POWER STANDBY, DBV0006A	DBV0006A
U3	1		TPS25740RGE	Texas Instruments	USB Power Delivery (PD) Provider-Only and Type-C Downward Facing Port (DFP) Port Controller, RGE0024F	RGE0024F
U5	1		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
U7	1		FOD817AS	Fairchild Semiconductor	Optocoupler, 5 kV, 80-160% CTR, SMT	DIP-4L Gullwing

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