

PMP4497 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	1000pF	202R18W102KV4E	Johanson Technology	CAP, CERM, 1000 pF, 2000 V, +/- 10%, X7R, 1206_190	1206_190
C2, C32, C53, C54, C55, C56, C57	7	0.1uF	GRM188R72A104KA35D	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0603	0603
C3, C4	2	22uF	EEHZC1J220XP	Panasonic	CAP, Polymer Hybrid, 22 uF, 63 V, +/- 20%, 80 ohm, 6.3x7.7 SMD	6.3x7.7
C5, C6	2	2.2uF	GRM32ER72A225KA35L	MuRata	CAP, CERM, 2.2uF, 100 V, +/- 10%, X7R, 1210	1210
C8, C17, C47, C49, C50	5	2.2uF	GRM188R71A225KE15D	MuRata	CAP, CERM, 2.2uF, 10V, +/-10%, X7R, 0603	0603
C15, C16, C38	3	0.22uF	GRM155R71C224KA12D	MuRata	CAP, CERM, 0.22 uF, 16 V, +/- 10%, X7R, 0402	0402
C18, C52	2	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	0603
C19	1	0.1uF	GRM188R72A104KA35D	MuRata	CAP, CERM, 0.1uF, 100V, +/-10%, X7R, 0603	0603
C20	1	0.1uF	06035C104KAT2A	AVX	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
C21, C22	2	470uF	2TPE470MAJGB	Panasonic	CAP, Tantalum Polymer, 470 uF, 2 V, +/- 20%, 0.011 ohm, 3.5x1.9x2.8mm SMD	3.5x1.9x2.8mm
C23, C24, C25, C26, C27	5	47uF	GRM32ER70J476KE20L	MuRata	CAP, CERM, 47 uF, 6.3 V, +/- 10%, X7R, 1210	1210
C28	1	1uF	C1608X7R1C105K	TDK	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 0603	0603
C29, C30, C34, C35	4	10uF	GRM32ER71H106KA12L	MuRata	CAP, CERM, 10 uF, 50 V, +/- 10%, X7R, 1210	1210
C31, C33	2	2.2uF	GRM32ER72A225KA35L	MuRata	CAP, CERM, 2.2 uF, 100 V, +/- 10%, X7R, 1210	1210
C36, C39	2	2.2uF	GRM188R71A225KE15D	MuRata	CAP, CERM, 2.2 uF, 10 V, +/- 10%, X7R, 0603	0603
C37, C40	2	150pF	GRM1555C1H151JA01D	MuRata	CAP, CERM, 150 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C41	1	100pF	GRM1555C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C42	1	1000pF	C1005C0G1E102J	TDK	CAP, CERM, 1000 pF, 25 V, +/- 5%, C0G/NP0, 0402	0402
C43, C44, C48	3	0.1uF	GRM155R71A104KA01D	MuRata	CAP, CERM, 0.1uF, 10V, +/-10%, X7R, 0402	0402
C45, C46	2	0.33uF	C0603C334K4RACTU	Kemet	CAP, CERM, 0.33 uF, 16 V, +/- 10%, X7R, 0603	0603
D3, D4	2	40V	NSR0240V2T1G	ON Semiconductor	Diode, Schottky, 40V, 0.25A, SOD-523	SOD-523
D5	1	75V	SMCJ75A	Fairchild Semiconductor	Diode, TVS, Uni, 75 V, 1500 W, SMC	SMC
J1	1		1592820000	Weidmuller	Terminal Block, 10.76x17x11 mm, 2POS, 26-12AWG, TH	2x1 Terminal Block
J2, J3	2		2142-0		Output Pin For 1/8 Brick, D1.5mm*D2.5mm*L11.6mm	
J4	1		76308-204LF	FCI	Receptacle, 100mil, 4x1, Gold, TH	4x1 Receptacle
J5, J6	2		29-3653-02	AMPHENOL	SMA JACK 50 OHM, R/A, SMT	COAX_AMC_PB-FR
J7, J8	2		961102-6404-AR	3M	Header, 2.54mm, 2x1, TH	Header, 2.54mm, 2x1, TH
L1	1	4.7uH	7447785004	Würth Elektronik	Inductor, Shielded Drum Core, Metal Composite, 4.7 uH, 2.2 A, 0.06 ohm, SMD	6.2x3.3x5.9mm
L2, L3	2	330nH	APX10C80MR33	Coilank	Inductor, Shielded Drum Core, Ferrite, 330 nH, 27 A, 0.00018 ohm, SMD	10.1x8x7mm
L4	1	220nH	XFL3012-221MEB	Coilcraft	Inductor, Shielded, Composite, 220 nH, 3.5 A, 0.01 ohm, SMD	3x1.2x3mm
Q1, Q2, Q3, Q4	4	30V 60A 1.3mE	EPC2023	EPC	30V 60A 1.3mE	EPC2x40L
R1	1	0.01	73M1R010F	CTS Resistor	RES, 0.01, 1%, 1 W, 2512	2512
R4, R21, R48, R50	4	24k	CRCW040224K0JNED	Vishay-Dale	RES, 24 k, 5%, 0.063 W, 0402	0402

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R11	1	220k	ERJ-6GEYJ224V	Panasonic	RES, 220 k, 5%, 0.125 W, 0805	0805
R12	1	1.0k	CRCW06031K00JNEA	Vishay-Dale	RES, 1.0 k, 5%, 0.1 W, 0603	0603
R13	1	62k	CRCW080562K0JNEA	Vishay-Dale	RES, 62 k, 5%, 0.125 W, 0805	0805
R14	1	0	RC0603JR-070RL	Yageo America	RES, 0, 5%, 0.1 W, 0603	0603
R15, R16	2	0.001	ERJ-M1WTF1M0U	Panasonic	RES, 0.001, 1%, 1 W, 2512	2512
R17, R19	2	150k	RC0603FR-07150KL	Yageo America	RES, 150 k, 1%, 0.1 W, 0603	0603
R18, R23	2	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
R20, R24, R33, R34, R46, R52	6	10.0	CRCW040210R0FKED	Vishay-Dale	RES, 10.0 ohm, 1%, 0.063W, 0402	0402
R22, R29	2	100	CRCW0402100RFKED	Vishay-Dale	RES, 100, 1%, 0.063 W, 0402	0402
R26, R30, R31, R32, R40, R49, R62	7	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
R27, R28	2	2.49k	CRCW04022K49FKED	Vishay-Dale	RES, 2.49 k, 1%, 0.063 W, 0402	0402
R35, R39	2	20.0k	CRCW040220K0FKED	Vishay-Dale	RES, 20.0 k, 1%, 0.063 W, 0402	0402
R36, R41	2	2.74k	CRCW04022K74FKED	Vishay-Dale	RES, 2.74 k, 1%, 0.063 W, 0402	0402
R37, R51	2	33k	CRCW040233K0JNED	Vishay-Dale	RES, 33 k, 5%, 0.063 W, 0402	0402
R38, R43	2	3.32k	CRCW04023K32FKED	Vishay-Dale	RES, 3.32 k, 1%, 0.063 W, 0402	0402
R42, R45	2	10	CRCW040210R0JNED	Vishay-Dale	RES, 10, 5%, 0.063 W, 0402	0402
R44	1	178k	CRCW0402178KFKED	Vishay-Dale	RES, 178 k, 1%, 0.063 W, 0402	0402
R47	1	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
R64, R65	2	49.9	CRCW040249R9FKED	Vishay-Dale	RES, 49.9, 1%, 0.063 W, 0402	0402
RT1, RT2	2	10k ohm	NCP15XH103J03RC	MuRata	Thermistor NTC, 10k ohm, 5%, 0402	0402
T2	1	48W	ER18-3-10-TP5B (3F46)-S	TDG (Ferroxcube)	PCB Planar Transformer, 48W, ER18-3-10-TP5B	Plannar Transformer
TP1, TP2, TP3, TP4	4	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U1, U3	2		TLV70450DBVR	Texas Instruments	Single Output LDO, 150 mA, Fixed 5 V Output, 2.5 to 24 V Input, with Ultra-Low IQ, 5-pin SOT-23 (DBV), -40 to 125 degC, Green (RoHS & no Sb/Br)	DBV0005A
U4	1		TLV70433DBVR	Texas Instruments	Single Output LDO, 150 mA, Fixed 3.3 V Output, 2.5 to 24 V Input, with Ultra-Low IQ, 5-pin SOT-23 (DBV), -40 to 125 degC, Green (RoHS & no Sb/Br)	DBV0005A
U5	1		FOD817ASD	Fairchild Semiconductor	Optocoupler, 5 kV, 80-160% CTR, SMD-4	DIP-4L Gullwing
U6	1		LMG5200MOFT	Texas Instruments	LMG5200MOFT, MOF0009A	MOF0009A
U7, U8	2		UCC27512DRSR	Texas Instruments	Single-Channel High-Speed Low-Side Gate Driver with 4-A Peak Source and 8-A Peak Sink, DRS0006A	DRS0006A
U9	1		ISO7420FEDR	Texas Instruments	50 Mbps Low Power Dual Channels, Digital Isolator, 3.3 V / 5 V, -40 to +125 degC, 8-pin SOIC (D), Green (RoHS & no Sb/Br)	D0008A
U10	1		TPS53632G	Texas Instruments	Half-Bridge, D-CAP+ Controller for 48-V GaN DC/DC Converter Applications with I2C Interface Control, RSM0032B	RSM0032B