


PMP11254 REV D Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C30	1	100pF	C1608C0G1H101J	TDK	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	603
C34	1	330pF	C1608C0G1H331J	TDK	CAP, CERM, 330 pF, 50 V, +/- 5%, C0G/NP0, 0603	603
C11, C12, C13, C14	0	DNP	C1608C0G1H331J	TDK	CAP, CERM, 330 pF, 50 V, +/- 5%, C0G/NP0, 0603	603
C2, C3, C9, C10	4	1000pF	C1608X7R2A102K	TDK	CAP, CERM, 1000pF, 100V, +/-10%, X7R, 0603	603
C16	1	2200pF	C1608X7R2A222K	TDK	CAP, CERM, 2200 pF, 100 V, +/- 10%, X7R, 0603	603
C35	0	DNP	C1608X7R1H103K	TDK	CAP, CERM, 0.01 µF, 50 V, +/- 10%, X7R, 0603	603
C4, C5, C6, C7	4	0.01uF	C1608X7R2A103K	TDK	CAP, CERM, 0.01uF, 100V, +/-10%, X7R, 0603	603
C28	1	0.022uF	C1608X7R1H223K	TDK	CAP, CERM, 0.022 µF, 50 V, +/- 10%, X7R, 0603	603
C32	1	0.033uF	GRM188R71E333KA01D	MuRata	CAP, CERM, 0.033uF, 25V, +/-10%, X7R, 0603	603
C29	1	0.47uF	GRM188R71C474KA88D	MuRata	CAP, CERM, 0.47 µF, 16 V, +/- 10%, X7R, 0603	603
C36	0	DNP	GRM21A5C2E101JW01D	MuRata	CAP, CERM, 100 pF, 250 V, +/- 5%, C0G/NP0, 0805	805
C20, C27	2	0.1uF	C2012X7R2A104K	TDK	CAP, CERM, 0.1uF, 100V, +/-10%, X7R, 0805	805
C31, C33	2	1uF	C2012X5R1E105K	TDK	CAP, CERM, 1uF, 25V, +/-10%, X5R, 0805	805
C18, C19	2	2.2uF	GRM32ER72A225KA35L	MuRata	CAP, CERM, 2.2uF, 100V, +/-10%, X7R, 1210	1210
C21, C22, C23, C24	4	22uF	GRM32ER71C226KE18L	MuRata	CAP, CERM, 22 µF, 16 V, +/- 10%, X7R, 1210	1210
C1, C8	2	1000pF	1812GC102KA1	AVX	CAP, CERM, 1000pF, 2000V, +/-10%, X7R, 1812	1812
C15, C25	2	2200pF	C4532X7R3D222K	TDK	CAP, CERM, 2200 pF, 2000 V, +/- 10%, X7R, 1812	1812
C26	1	22uF	EEE-FK1E220R	Panasonic	CAP, AL, 22 µF, 25 V, +/- 20%, 0.7 ohm, SMD	SMT Radial C
C17	1	22uF	EEE-FK2A220P	Panasonic	CAP, AL, 22uF, 100V, +/-20%, 1.3 ohm, SMD	SMT Radial F
D1, D2, D3, D4, D5, D6, D7, D8, D9	9		B2100-13-F	Diodes Inc.	Diode, Schottky, 100 V, 2 A, SMB	SMB
D10	1		SBR8A60P5-13	Diodes Inc.	Diode, Super Barrier Rectifier, 60 V, 8 A, PowerDI5	PowerDI5
D11	1		DFLU1200-7	Diodes Inc.	Diode, Superfast Rectifier, 200 V, 1 A, PowerDI123	PowerDI123
D12, D13	2		MMSD4148T1G	ON Semiconductor	Diode, Switching, 100V, 0.2A, SOD-123	SOD-123
D14	1	58V	SMAJ58A	Littelfuse	Diode, TVS, Uni, 58V, 400W, SMA	SMA
D15	1		BAT54S-7-F	Diodes Inc.	Diode, Schottky, 30V, 0.2A, SOT-23	SOT-23
J1, J2	2		1-406541-1	AMP	RJ-45, Right Angle, No LED, tab up	16.26x14.54x15.75
J3	1		PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin plated, TH	Header, 2 PIN, 100mil, Tin
J5, J6	2		ED555/2DS	OST	Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	7.0x8.2x6.5mm
L1, L2, L3, L4	4	300 ohm	742792641	Würth Elektronik	Ferrite Bead, 300 ohm @ 100 MHz, 2 A, 0603	603
L5	1	3.3uH	744042003	Würth Elektronik	Inductor, Shielded Drum Core, Ferrite, 3.3 µH, 1.8 A, 0.055 ohm, SMD	WE-TPC-M1
Q1, Q2, Q3, Q4	0	DNP	CSD19537Q3	Texas Instruments	MOSFET, N-CH, 100 V, 50 A, DQG0008A	DQG0008A
Q5	1		FDS86242	Fairchild Semiconductor	MOSFET, N-CH, 150V, 4.1A, SOIC-8	SOIC-8
R21, R39	2	0	ERJ-3GEY0R00V	Panasonic	RES, 0, 5%, 0.1 W, 0603	603
R22	1	10	CRCW060310R0JNEA	Vishay-Dale	RES, 10, 5%, 0.1 W, 0603	603
R34	1	63.4	CRCW060363R4FKEA	Vishay-Dale	RES, 63.4 ohm, 1%, 0.1W, 0603	603
R1, R2, R4, R5, R6, R7, R8, R9	8	75	CRCW060375R0FKEA	Vishay-Dale	RES, 75.0 ohm, 1%, 0.1W, 0603	603
R24	1	332	CRCW0603332RFKEA	Vishay-Dale	RES, 332, 1%, 0.1 W, 0603	603
R35	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	603
R25, R28, R31	3	2.00k	CRCW06032K00FKEA	Vishay-Dale	RES, 2.00 k, 1%, 0.1 W, 0603	603
R37	1	2.61k	CRCW06032K61FKEA	Vishay-Dale	RES, 2.61 k, 1%, 0.1 W, 0603	603
R32	1	4.42k	CRCW06034K42FKEA	Vishay-Dale	RES, 4.42 k, 1%, 0.1 W, 0603	603
R29	1	4.99k	CRCW06034K99FKEA	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, 0603	603
R3	1	5.11k	CRCW06035K11FKEA	Vishay-Dale	RES, 5.11 k, 1%, 0.1 W, 0603	603

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R26, R33	2	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	603
R27	1	24.9k	CRCW060324K9FKEA	Vishay-Dale	RES, 24.9 k, 1%, 0.1 W, 0603	603
R40	1	34.0k	CRCW060334K0FKEA	Vishay-Dale	RES, 34.0 k, 1%, 0.1 W, 0603	603
R23	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	603
R38	0	DNP	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	603
R14, R15, R16, R17	0	DNP	CRCW0603232KFKEA	Vishay-Dale	RES, 232 k, 1%, 0.1 W, 0603	603
R36	1	750k	CRCW0603750KFKEA	Vishay-Dale	RES, 750 k, 1%, 0.1 W, 0603	603
R10, R11, R12, R13	0	DNP	CRCW06031M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.1 W, 0603	603
R20	1	20	CRCW080520R0JNEA	Vishay-Dale	RES, 20, 5%, 0.125 W, 0805	805
R19	1	39k	CRCW080539K0JNEA	Vishay-Dale	RES, 39k ohm, 5%, 0.125W, 0805	805
R30	1	0.082	MCR18EZHFSR082	Rohm	RES, 0.082 ohm, 1%, 0.25W, 1206	1206
R18	1	7.5	CRCW25127R50JNEG	Vishay-Dale	RES, 7.5, 5%, 1 W, 2512	2512
R41	0	DNP	CRCW25127R50JNEG	Vishay-Dale	RES, 75, 5%, 1 W, 2512	2512
T1	1		749022016	Würth Elektronik	Transformer, PoE+, SMT	Transformer, SOIC-24 Wide
T2	1		7491195112	Würth Elektronik	Transformer, 41 uH, SMT	17.65x14mm
U1, U3	2		HMHA2801A	Fairchild Semiconductor	Optocoupler, 3.75 kV, 80-160% CTR, SMD-4, Optocoupler, 3.75kV RMS, SMT	Mini Flat Package
U2	1		TPS23751PWP	Texas Instruments	IEEE 802.3at PoE Interface with Wide Range High Efficiency DC-DC Controller, PWP0016D	PWP0016D
U4	1		TL431AIDBV	Texas Instruments	PRECISION PROGRAMMABLE REFERENCE, DBV0005A	DBV0005A

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