

PMP40355 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	47uF	EMVH101ARA470MKE0S	Chemi-Con	CAP, AL, 47 µF, 100 V, +/- 20%, 0.33 ohm, SMD	KE0
C2, C3, C4, C15	4	1uF	GRM32CR72A105KA35L	MuRata	CAP, CERM, 1 µF, 100 V, +/- 10%, X7R, 1210	1210
C5	1	0.01uF	08051C103JAT2A	AVX	CAP, CERM, 0.01 µF, 100 V,+/- 5%, X7R, 0805	0805
C7	1	0.1uF	GRM219R71C104KA01D	MuRata	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0805	0805
C8	1	220uF	EMVA250ADA221MHA0G	Chemi-Con	CAP, AL, 220 µF, 25 V, +/- 20%, SMD	HA0
C9, C10, C16,	4	0.01uF	CGA3E2X7R2A103K080AA	TDK	CAP, CERM, 0.01 µF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C17						
C11	1	22uF	CL32A226KAJNNNE	Samsung Electro-Mechanics	CAP, CERM, 22 μF, 25 V, +/- 10%, X5R, 1210	1210
C12	1	22uF	EMK212BBJ226MG-T	Taiyo Yuden	CAP, CERM, 22 μF, 16 V, +/- 20%, X5R, 0805	0805
C13	1	47pF	12061A470JAT2A	AVX	CAP, CERM, 47 pF, 100 V, +/- 5%, C0G/NP0, 1206	1206
C14	1	10uF	GMK316AB7106KL	Taiyo Yuden	CAP, CERM, 10 µF, 35 V,+/- 10%, X7R, 1206	1206
C18	1	1000pF	VJ1210Y102KXGAT5Z	Vishay-Vitramon	CAP, CERM, 1000 pF, 1000 V, +/- 10%, X7R, 1210	1210
C19	1	220pF	08051A221JAT2A	AVX	CAP, CERM, 220 pF, 100 V,+/- 5%, C0G/NP0, 0805	0805
C20	1	0.1uF	C0805C104K1RACTU	Kemet	CAP, CERM, 0.1 µF, 100 V, +/- 10%, X7R, 0805	0805
C21	1	22pF	GRM2195C2A220JZ01D	MuRata	CAP, CERM, 22 pF, 100 V,+/- 5%, C0G/NP0, 0805	0805
C22	1	1000pF	08051A102JAT2A	AVX	CAP, CERM, 1000 pF, 100 V, +/- 5%, C0G/NP0, 0805	0805
C23	1	0.1uF	C3216C0G2A104J160AC	TDK	CAP, CERM, 0.1 µF, 100 V, +/- 5%, C0G/NP0, 1206_190	1206 190
C26	1	1uF	08055C105KAT2A	AVX	CAP, CERM, 1 µF, 50 V,+/- 10%, X7R, 0805	0805
C27	1	2200pF	CC0805KRX7R9BB222	Yageo America	CAP, CERM, 2200 pF, 50 V,+/- 10%, X7R, 0805	0805
D1	1	12V	DFLZ12-7	Diodes Inc.	Diode, Zener, 12 V, 1 W, PowerDI123	PowerDI123
D2	1	100V	V12P10-M3/86A	Vishay-Semiconductor	Diode, Schottky, 100 V, 12 A, AEC-Q101, TO-277A	TO-277A
D3	1	Red	LTST-C150CKT	Lite-On	LED, Red, SMD	1206
D4, D5	2	100V	HD01-T	Diodes Inc.	Diode, Switching-Bridge, 100 V, 0.8 A, MiniDIP	MiniDIP
D6	1	58V	SMAJ58A	Diodes Inc.	Diode, TVS, Uni, 58 V, SMA	SMA
D7	1	75V	BAV99-7-F	Diodes Inc.	Diode, Switching, 75 V, 0.3 A, SOT-23	SOT-23
J1, J2	2		SS-7188V-A-NF	Stewart Connector	RJ-45, Vertical, TH	RJ-45 Jack, 8Pos
L1	1	10uH	74477710	Wurth Elektronik	Inductor, Shielded Drum Core, Metal Composite, 10 µH, 2 A, 0.045 ohm,	Right Angle SMD
1.0	4	00.11	7.4.770000		SMD	0145
L2	1	68uH	7447709680	Wurth Elektronik	Inductor, Shielded Drum Core, Ferrite, 68 µH, 3.2 A, 0.06864 ohm, SMD	SMD
Q1	1	80 V	BCX56-16,115	Nexperia	Transistor, NPN, 80 V, 1 A, AEC-Q101, SOT-89	SOT-89
Q2	1	100V	CSD19537Q3	Texas Instruments	MOSFET, N-CH, 100 V, 50 A, DQG0008A (VSON-CLIP-8)	DQG0008A
Q9, Q10	2	80 V	MMBTA56LT1G	ON Semiconductor	Transistor, PNP, 80 V, 0.5 A, SOT-23	SOT-23
R1	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0805	0603
R2, R18, R31	3	1.00k	CRCW08051K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.125 W, 0805	0805
R3	1	49.9	ERJ-8ENF49R9V	Panasonic	RES, 49.9, 1%, 0.25 W, 1206	1206
R4, R5, R9, R10	4	75	CRCW060375R0JNEA	Vishay-Dale	RES, 75, 5%, 1/16 W, 0603	0603
R6	1	75.0k	CRCW060375K0FKEA	Vishay-Dale	RES, 75.0 k, 1%, 0.1 W, 0603	0603
R7	1	39.2k	CRCW060339K2FKEA	Vishay-Dale	RES, 39.2 k, 1%, 0.1 W, 0603	0603
R8	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R11	1	49.9	CRCW080549R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.125 W, 0805	0805
R12	1	6.2k	CRCW08056K20JNEA	Vishay-Dale	RES, 6.2 k, 5%, 0.125 W, 0805	0805
R13	1	2.0k	CRCW08052K00JNEA	Vishay-Dale	RES, 2.0 k, 5%, 0.125 W, 0805	0805

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R14	1	3.3k	CRCW08053K30JNEA	Vishay-Dale	RES, 3.3 k, 5%, 0.125 W, 0805	0805
R15	1	24.9k	CRCW060324K9FKEA	Vishay-Dale	RES, 24.9 k, 1%, 0.1 W, 0603	0603
R16	1	90.9	CRCW080590R9FKEA	Vishay-Dale	RES, 90.9, 1%, 0.125 W, 0805	0805
R17	1	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, 0805	0805
R19	1	0.25	CSRN2010FKR250	Stackpole Electronics Inc	RES, 0.25, 1%, 1 W, 2010	2010
R20	1	10k	CRCW080510K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.125 W, 0805	0805
R21	1	30k	CRCW080530K0JNEA	Vishay-Dale	RES, 30 k, 5%, 0.125 W, 0805	0805
R30	1	8.87k	CRCW08058K87FKEA	Vishay-Dale	RES, 8.87 k, 1%, 0.125 W, 0805	0805
R32	1	3.92k	CRCW08053K92FKEA	Vishay-Dale	RES, 3.92 k, 1%, 0.125 W, 0805	0805
R34	1	5.1k	CRCW08055K10JNEA	Vishay-Dale	RES, 5.1 k, 5%, 0.125 W, 0805	0805
T1	1	350uH	H2019FNLT	Pulse Engineering	Transformer, 350uH, SMT	358x236x500mil
U1	1		TPS23753APW	Texas Instruments	IEEE 802.3-2005 PoE Interface and Isolated Converter Controller with Enhanced ESD Ride-Through, -40 to 125 degC, 14-pin SOP (PW14), Green (RoHS & no Sb/Br)	PW0014A
U5	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

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