

PMP40514 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C2, C3, C4	4	0.01uF	C0603X103K1RACTU	Kemet	CAP, CERM, 0.01 uF, 100 V, +/- 10%, X7R, 0603	0603
C5	1	1000pF	C1210C102KGRACTU	Kemet	CAP, CERM, 1000 pF, 2000 V, +/- 10%, X7R, 1210	1210
C6	1	47uF	EEU-FC2A470	Panasonic	CAP, AL, 47 uF, 100 V, +/- 20%, 0.24 ohm, AEC-Q200 Grade 2, TH	D10xL20mm
C7	1	0.1uF	CGA5L2X7R2A104K160AA	TDK	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
C8, C9	2	1uF	GRM32CR72A105KA35L	MuRata	CAP, CERM, 1 uF, 100 V, +/- 10%, X7R, 1210	1210
C11, C13, C32	3	1uF	C0805C105K3RACTU	Kemet	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0805	0805
C12, C20	2	1000pF	C0805C102K1RACTU	Kemet	CAP, CERM, 1000 pF, 100 V, +/- 10%, X7R, 0805	0805
C14, C15	2	220uF	EKZE350ETD221MJC5S	Chemi-Con	CAP, AL, 220 uF, 35 V, +/- 20%, 0.053 ohm, TH	TH, 2-Leads, Body 10x12.5mm, Pin Spacing 5mm
C16, C17, C22	3	22uF	GRM32ER71E226KE15L	MuRata	CAP, CERM, 22 uF, 25 V, +/- 10%, X7R, 1210	1210
C18	1	10uF	C1206C106K3RACTU	Kemet	CAP, CERM, 10 uF, 25 V, +/- 10%, X7R, 1206_190	1206_190
C19	1	0.1uF	GRM21BR71E104KA01L	MuRata	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0805	0805
C21	1	0.1uF	C0805C104K1RACTU	Kemet	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0805	0805
C23	1	220pF	C0805C221K5RACTU	Kemet	CAP, CERM, 220 pF, 50 V, +/- 10%, X7R, 0805	0805
C24	1	0.1uF	GRM31CR72E104KW03L	MuRata	CAP, CERM, 0.1 uF, 250 V, +/- 10%, X7R, 1206	1206
C25	1	1uF	GRM21BR71E105KA99L	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0805	0805
C28, C30	2	0.01uF	GRM216R71H103KA01D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0805	0805
C29	1	3300pF	GRM216R71E332KA01D	MuRata	CAP, CERM, 3300 pF, 25 V, +/- 10%, X7R, 0805	0805
C31	1	0.01uF	C0805C103M5RACTU	Kemet	CAP, CERM, 0.01 uF, 50 V, +/- 20%, X7R, 0805	0805
C33	1	2200pF	C4532X7R3D222K130KA	TDK	CAP, CERM, 2200 pF, 2000 V, +/- 10%, X7R, 1812	1812
D1, D2, D3, D4, D5, D6, D7, D8	8	100V	VSSB310-E3/52T	Vishay-Semiconductor	Diode, Schottky, 100 V, 1.9 A, SMB	SMB
D10, D15, D16, D17	4	100V	BAS16LT1G	ON Semiconductor	Diode, Switching, 100 V, 0.2 A, SOT-23	SOT-23
D11	1	58V	SMAJ58A	Diodes Inc.	Diode, TVS, Uni, 58 V, SMA	SMA
D12	1	60V	V10P6-M3/87A	Vishay-Semiconductor	Diode, Schottky, 60 V, 10 A, AEC-Q101, TO-277A	TO-277A
J1, J2	2		SS-7188S-A-NF	Stewart Connector	RJ45, 1.27mm, R/A, Gold, TH	RJ-45, 1.27mm, R/A, TH
J4	1		ED555/2DS	On-Shore Technology	Terminal Block, 3.5mm Pitch, 2x1, TH	7.0x8.2x6.5mm
L1	1	3.3uH	DO1608C-332MLB	Coilcraft	Inductor, Drum Core, Ferrite, 3.3 uH, 2 A, 0.08 ohm, SMD	DO1608C
L2, L4	2	500 ohm	MI1206L501R-10	Laird-Signal Integrity Products	Ferrite Bead, 500 ohm @ 100 MHz, 2 A, 1206	1206
L3	1	330nH	744383360033	Würth Elektronik	Inductor, 330 nH, 5.5 A, 0.014 ohm, SMD	SMD, 2-Leads, Body 3.2x3.2mm
Q2	1	150V	BSZ900N15NS3 G	Infineon Technologies	MOSFET, N-CH, 150 V, 13 A, PG-TSDSON-8	PG-TSDSON-8
Q4	1	-30V	BSZ086P03NS3 G	Infineon Technologies	MOSFET, P-CH, 150V, 2.7A, 8MLP	PG-TSDSON-8
R1, R2, R3, R4	4	75.0	RC0603FR-0775RL	Yageo America	RES, 75.0, 1%, 0.1 W, 0603	0603
R5	1	69.8k	CRCW080569K8FKEA	Vishay-Dale	RES, 115 k, 1%, 0.125 W, 0805	0805
R7, R18, R24, R27, R29	5	10.0k	CRCW080510K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.125 W, 0805	0805
R8	1	100k	CRCW0805100KFKEA	Vishay-Dale	RES, 50 k, 1%, 0.125 W, 0805	0805
R9	1	10.0	CRCW120610R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.25 W, 1206	1206
R10, R14	2	10.0	CRCW080510R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.125 W, 0805	0805
R11	1	80.6k	CRCW080580K6FKEA	Vishay-Dale	RES, 140 k, 1%, 0.125 W, 0805	0805

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R12	1	90.9	CRCW080590R9FKEA	Vishay-Dale	RES, 90.9, 1%, 0.125 W, 0805	0805
R13	1	24.9k	CRCW080524K9FKEA	Vishay-Dale	RES, 24.9 k, 1%, 0.125 W, 0805	0805
R15, R23	2	1.00k	CRCW08051K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.125 W, 0805	0805
R16	1	0.2	CSRN2010FKR200	Stackpole Electronics Inc	RES, 0.2, 1%, 1 W, 2010	2010
R17	1	0	5106	Keystone	RES, 0, 1%, 0.5 W, 0805	0805
R20	1	49.9	CRCW080549R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.125 W, 0805	0805
R21	1	1.50k	CRCW08051K50FKEA	Vishay-Dale	RES, 1.50 k, 1%, 0.125 W, 0805	0805
R22	1	2.00k	CRCW08052K00FKEA	Vishay-Dale	RES, 2.00 k, 1%, 0.125 W, 0805	0805
R25	1	4.99k	CRCW08054K99FKEA	Vishay-Dale	RES, 4.99 k, 1%, 0.125 W, 0805	0805
R26	1	88.7k	CRCW080588K7FKEA	Vishay-Dale	RES, 88.7 k, 1%, 0.125 W, 0805	0805
R28	1	1.00Meg	CRCW08051M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.125 W, 0805	0805
T1	1		ETH1-230LD	Coilcraft	Transformer, PoE Plus Magnetics, SMT	15.75x16.51mm
T2	1		Used in BOM report	Used in BOM report	EFD15-12T-12V	eg: 0603, used in PnP report
TP1, TP3, TP4, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19, TP20, TP24, TP25, TP26, TP27, TP28, TP29, TP30	25		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
U1	1		TPS23756PWPR	Texas Instruments	High Power / High Efficiency PoE Interface and DC / DC Controller, -40 to 125 degC, 20-pin SOP (PW20), Green (RoHS & no Sb/Br)	PWP0020D
U2	1		TCMT1107	Vishay-Semiconductor	Optocoupler, 3.75 kV, 80-160% CTR, SMT	SOP-4
U3	1		LMV431AIMFX/NOPB	Texas Instruments	Low-Voltage (1.24V) Adjustable Precision Shunt Regulators, 3-pin SOT-23	DBZ0003A

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