

PMP22806 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C36	1	10pF	06035A100JAT2A	AVX	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C25	1	330pF	GRM1885C1H331JA01D	MuRata	CAP, CERM, 330 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C7, C8, C9, C23	4	1000pF	C1608X7R2A102K080AA	TDK	CAP, CERM, 1000 pF, 100 V, +/- 10%, X7R, 0603	0603
C42	1	1000pF	885012206083	Würth Elektronik	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	0603
C39	1	2200pF	C0603C222K5RAC	Kemet	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	0603
C44	1	2200pF	06031C222KAT2A	AVX	CAP, CERM, 2200 pF, 100 V, +/- 10%, X7R, 0603	0603
C35	1	4700pF	885012206087	Würth Elektronik	CAP, CERM, 4700 pF, 50 V, +/- 10%, X7R, 0603	0603
C2, C3, C4, C5	4	0.01uF	GRM188R72A103KA01D	MuRata	CAP, CERM, 0.01 uF, 100 V, +/- 10%, X7R, 0603	0603
C33	1	0.047uF	GRM188R71E473KA01D	MuRata	CAP, CERM, 0.047 uF, 25 V, +/- 10%, X7R, 0603	0603
C38, C41	2	0.1uF	885012206071	Würth Elektronik	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	0603
C22, C37	2	1uF	885012206076	Würth Elektronik	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	0603
C15, C30, C43, C45	4	0.1uF	C2012X7R2A104K125AA	TDK	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0805	0805
C40	1	3.3uF	GRM31CR71E335KA88L	MuRata	CAP, CERM, 3.3 uF, 25 V, +/- 10%, X7R, 1206	1206
C18, C19, C20, C21	4	10uF	885012209028	Würth Elektronik	CAP, CERM, 10 uF, 25 V, +/- 10%, X7R, 1210	1210
C13, C14	2	2.2uF	GRM32ER72A225KA35L	MuRata	CAP, CERM, 2.2 uF, 100 V, +/- 10%, X7R, 1210	1210
C1, C6	2	1000pF	GR443QR73D102KW01L	MuRata	CAP, CERM, 1000 pF, 2000 V, +/- 10%, X7R, 1812	1812
C11, C28	2	2200pF	C4532X7R3D222K130KA	TDK	CAP, CERM, 2200 pF, 2000 V, +/- 10%, X7R, 1812	1812
C16	1	82uF	16SVP82M	Panasonic	CAP, Aluminum Polymer, 82 uF, 16 V, +/- 20%, 0.04 ohm, 8x10 SMD	8x10
C12	1	33uF	EEE-FK1J330P	Panasonic	CAP, AL, 33 uF, 63 V, +/- 20%, 0.65 ohm, AEC-Q200 Grade 2, SMD	SMT Radial F
D1, D2, D3, D4, D11, D13, D14, D15, D16	9	100V	B2100-13-F	Diodes Inc.	Diode, Schottky, 100 V, 2 A, SMB	SMB
D7	1	200V	ES1D-13-F	Diodes Inc.	Diode, Ultrafast, 200 V, 1 A, SMA	SMA
D8, D9	2	100V	MMSD4148T1G	ON Semiconductor	Diode, Switching, 100 V, 0.2 A, SOD-123	SOD-123
D12	1	58V	SMAJ58A-13-F	Diodes Inc.	Diode, TVS, Uni, 58 V, SMA	SMA
D21, D22, D23	3	Yellow	150060YS75000	Würth Elektronik	LED, Yellow, SMD	LED_0603
D25	1	100V	B3100-13-F	Diodes Inc.	Diode, Schottky, 100 V, 3 A, SMC	SMC
D100	1	60V	SBR8A60P5-13	Diodes Inc.	Diode, Super Barrier Rectifier, 60 V, 8 A, PowerDI5	PowerDI5
J1, J2	2		1-406541-1	TE Connectivity	RJ45, No LED, tab up, R/A, TH	16.26x14.54x15.75
J3, J4	2		ED555/2DS	On-Shore Technology	Terminal Block, 3.5mm Pitch, 2x1, TH	7.0x8.2x6.5mm
J6, J7, J14	3		TSW-103-07-G-S	Samtec	Header, 100mil, 3x1, Gold, TH	3x1 Header
J11	1		923345-01-C	3M	Jumper Wire, 100mil spacing, pkg of 200, TH	Wire Jumper
J15, J17, J18	3		TSW-102-07-G-S	Samtec	Header, 100mil, 2x1, Gold, TH	2x1 Header
L1, L5, L6, L8	4	300 ohm	742792641	Würth Elektronik	Ferrite Bead, 300 ohm @ 100 MHz, 2 A, 0603	0603
L3	1	3.3uH	744042003	Würth Elektronik	Inductor, Shielded Drum Core, Ferrite, 3.3 uH, 1.8 A, 0.055 ohm, SMD	WE-TPC-M1
Q2	1	150V	FDMS86252	Fairchild Semiconductor	MOSFET, N-CH, 150 V, 4.6 A, PQFN08A	PQFN08A
R30, R55, R56, R57, R58	5	0	ERJ-3GEY0R00V	Panasonic	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R14	1	4.7	CRCW06034R70JNEA	Vishay-Dale	RES, 4.7, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R34	1	10	CRCW060310R0JNEA	Vishay-Dale	RES, 10, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R1, R2, R3, R4, R5, R6, R7, R8	8	75.0	CRCW060375R0FKEA	Vishay-Dale	RES, 75.0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R19	1	1.00k	RC0603FR-071KL	Yageo	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R38	1	4.32k	CRCW06034K32FKEA	Vishay-Dale	RES, 4.32 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R10	1	4.42k	CRCW06034K42FKEA	Vishay-Dale	RES, 4.42 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R33, R36, R48, R59, R64, R65	6	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R35	1	24.9k	RC0603FR-0724K9L	Yageo	RES, 24.9 k, 1%, 0.1 W, 0603	0603
R28	1	25.5k	RC0603FR-0725K5L	Yageo	RES, 25.5 k, 1%, 0.1 W, 0603	0603
R24	1	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R42	1	60.4k	CRCW060360K4FKEA	Vishay-Dale	RES, 60.4 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R9, R37	2	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R32	1	110k	CRCW0603110KFKEA	Vishay-Dale	RES, 110 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R40	1	237k	RC0603FR-07237KL	Yageo	RES, 237 k, 1%, 0.1 W, 0603	0603
R47	1	499k	CRCW0603499KFKEA	Vishay-Dale	RES, 499 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R16	1	3.90	ERJ-6RQF3R9V	Panasonic	RES, 3.90, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
R27	1	31.6	CRCW080531R6FKEA	Vishay-Dale	RES, 31.6, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
R41	1	3.3k	CRCW08053K30JNEA	Vishay-Dale	RES, 3.3 k, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
R18	1	0.12	ERJ-8RQFR12V	Panasonic	RES, 0.12, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R43	1	51	CRCW120651R0JNEA	Vishay-Dale	RES, 51, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R13	1	39k	CRCW120639K0JNEA	Vishay-Dale	RES, 39 k, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R69	1	7.5	CRCW20107R50JNEF	Vishay-Dale	RES, 7.5, 5%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
T1	1	350uH	749022016	Würth Elektronik	Transformer, PoE+, SMT	Transformer, SOIC-24 Wide
T2	1		LDT1069-50R	LinkCom	Flyback transformer for PoE applications	
TP1, TP6, TP12, TP18, TP43, TP45	6		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP2, TP7, TP8, TP14, TP30, TP37, TP38, TP44	8		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
TP3, TP5, TP9, TP10, TP15, TP16, TP17, TP19, TP20, TP22, TP23, TP24, TP25, TP26, TP27, TP32	16		5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
TP4, TP11, TP21, TP28, TP29, TP33, TP34, TP39, TP40, TP42	10		5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
U1	1		TPS23731RMT	Texas Instruments	IEEE 802.3bt Type 3 Class 1-4 PoE PD with No-Opto Flyback DC-DC Controller	VQFN45
U2, U3	2		FOD817DS	Fairchild Semiconductor	Optocoupler, 5 kV, 300-600% CTR, SMT	DIP-4L Gullwing
C10	0	680pF	GRM188R71H681KA01D	MuRata	CAP, CERM, 680 pF, 50 V, +/- 10%, X7R, 0603	0603
C17	0	220uF	10TPE220ML	Panasonic	CAP, Tantalum Polymer, 220 uF, 10 V, +/- 20%, 0.025 ohm, 7343-30 SMD	7343-30
C24, C27, C29, C31	0	330pF	GRM1885C1H331JA01D	MuRata	CAP, CERM, 330 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C34	0	56pF	06035A560FAT2A	AVX	CAP, CERM, 56 pF, 50 V, +/- 1%, C0G/NP0, 0603	0603
D5, D6, D17	0	100V	MMSD4148T1G	ON Semiconductor	Diode, Switching, 100 V, 0.2 A, SOD-123	SOD-123
D18, D19	0	12V	MMSZ5242B-7-F	Diodes Inc.	Diode, Zener, 12 V, 500 mW, SOD-123	SOD-123

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D20	0	24V	3SMAJ5934B-TP	Micro Commercial Component	Diode, Zener, 24 V, 3 W, SMA	SMA
L2, L7	0	250uH	744272251	Würth Elektronik	Coupled inductor, 250 uH, A, 0.035 ohm, SMD	8.7x10mm
L4	0	150nH	744302015	Würth Elektronik	Inductor, Shielded Drum Core, Ferrite, 150 nH, 30 A, 0.000235 ohm, SMD	7x5x7mm
Q1	0	40 V	MMBT3906-7-F	Diodes Inc.	Transistor, PNP, 40 V, 0.2 A, SOT-23	SOT-23
Q3	0	40V	CSD18504Q5A	Texas Instruments	MOSFET, N-CH, 40 V, 15 A, DQJ0008A (VSONP-8)	DQJ0008A
Q4, Q5, Q6, Q7	0	100V	CSD19538Q2	Texas Instruments	MOSFET, N-CH, 100 V, 4.5 A, DQK0006C (WSON-6)	DQK0006C
Q10	0	30V	CSD17577Q3A	Texas Instruments	MOSFET, N-CH, 30 V, 19 A, DNH0008A (VSONP-8)	DNH0008A
R11	0	4.7	CRCW06034R70JNEA	Vishay-Dale	RES, 4.7, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R12	0	4.99k	CRCW06034K99FKEA	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R60, R61	0	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R15, R17, R20, R21	0	1.00Meg	CRCW06031M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R22, R25, R26, R29	0	232k	CRCW0603232KFKEA	Vishay-Dale	RES, 232 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R31	0	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R68	0	750k	CRCW0603750KFKEA	Vishay-Dale	RES, 750 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
TP13	0		5003	Keystone	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint

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