

PMP22322 REV C Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB1	1		PMP22322	Any	Printed Circuit Board	
C1	1	15uF	UVC2G150MPD	Nichicon	CAP, AL, 15 μ F, 400 V, +/- 20%, AEC-Q200 Grade 2, TH	10x16mm
C2	1	82uF	400BXW82MEFR18X25	Rubycon	CAP, AL, 82 μ F, 400 V, +/- 20%, TH	Dia 18mm
C3	1	0.33uF	8.90324E+11	Wurth Elektronik	CAP, Film, 0.33 μ F, X2 275 VAC, +/- 10%, TH	15x8.5mm
C4, C5	2	0.1uF	C1210C104KBRAC7800	Kemet	CAP, CERM, 0.1 uF, 630 V, +/- 10%, X7R, 1210	1210
C6	1	1000pF	GRM31BR72J102KW01L	MuRata	CAP, CERM, 1000 pF, 630 V, +/- 10%, X7R, 1206	1206
C7	1	2.2uF	CGA4J3X7R1E225K125AB	TDK	CAP, CERM, 2.2 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	805
C8	1	1uF	C2012X7R1H105K085AC	TDK	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0805	805
C9, C26, C39, C40	4	22uF	GRM32ER71E226KE15L	MuRata	CAP, CERM, 22 uF, 25 V, +/- 10%, X7R, 1210	1210
C10	1	10uF	C3216X5R1H106K160AB	TDK	CAP, CERM, 10 uF, 50 V, +/- 10%, X5R, 1206	1206
C11	1	1uF	C3216X7R2A105M160AA	TDK	CAP, CERM, 1 uF, 100 V, +/- 20%, X7R, 1206	1206
C12	1	0.22uF	GRM155R71C224KA12D	MuRata	CAP, CERM, 0.22 uF, 16 V, +/- 10%, X7R, 0402	402
C13, C14	2	330pF	GRM155R71H331KA01D	MuRata	CAP, CERM, 330 pF, 50 V, +/- 10%, X7R, 0402	402
C17, C43	2	0.1uF	GRM155R71H104ME14D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 20%, X7R, 0402	402
C19, C21	2	100pF	GRM1555C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0402	402
C20	1	2200pF	C921U222MVVDBA7317	Kemet	CAP, CERM, 2200 pF, X1 400 VAC/Y1 400 VAC, +/- 20%, Y5V, D9xL13mm	D9xL13mm
C22, C28	2	22uF	GMK325BJ226MM-P	Taiyo Yuden	CAP, CERM, 22 μ F, 35 V, +/- 20%, X5R, 1210	1210
C23, C29	2	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	603
C24	1	24pF	GRM1555C1H240JA01D	MuRata	CAP, CERM, 24 pF, 50 V, +/- 5%, C0G/NP0, 0402	402
C25	1	0.015uF	GRM155R71H153KA12D	MuRata	CAP, CERM, 0.015 uF, 50 V, +/- 10%, X7R, 0402	402
C27	1	0.01uF	GRM155R71H103KA88D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0402	402
C32	1	10uF	GRM21BR6YA106KE43L	MuRata	CAP, CERM, 10 uF, 35 V, +/- 10%, X5R, 0805	805
C34	1	1500pF	GRM21AR72E152KW01D	MuRata	CAP, CERM, 1500 pF, 250 V, +/- 10%, X7R, 0805	805
C36	1	0.22uF	GRM31MR71H224KA01L	MuRata	CAP, CERM, 0.22 uF, 50 V, +/- 10%, X7R, 1206	1206
C37	1	680uF	687AVG025MGBJ	Illinois Capacitor	CAP, Aluminum Polymer, 680 μ F, 25 V, +/- 20%, 0.29256 ohm, TH	D10xL12mm
C100	1	2200pF	GRM155R71H222KA01D	MuRata	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0402	402
C101	1	1000pF	GRM155R71H102KA01D	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0402	402
D1	1	30V	CUS08F30,H3F	Toshiba	DIODE SCHOTTKY 30V 800MA USC	SOD-323
D2	1	9.1V	BZT52C9V1S-7-F	Diodes Inc.	Diode, Zener, 9.1 V, 200 mW, SOD-323	SOD-323
D3	1	200V	CSFMT104-HF	Comchip Technology	Diode, Superfast Rectifier, 200 V, 1 A, 3.5x1.6mm	3.5x1.6mm
D4	1	24V	CDSOD323-T24S	Bourns	Diode, TVS, Uni, 24 V, 49 Vc, SOD-323	SOD-323
D5	1	100V	BAS316,115	Nexperia	Diode, Ultrafast, 100 V, 0.25 A, SOD-323	SOD-323
D6	1	18V	CDSOD323-T18C	Bourns	Diode, TVS, Bi, 18 V, SOD-323	SOD-323
D7	1	40V	BAS40W-05-7-F	Diodes Inc.	Diode, Schottky, 40 V, 0.2 A, SOT-323	SOT-323
D8	1	30V	NSR20F30NXT5G	ON Semiconductor	Diode, Schottky, 30 V, 2 A, 2-XDFN	2-XDFN
D10	1	1000V	MRA4007T3G	ON Semiconductor	Diode, Standard Recovery Rectifier, 1000 V, 1 A, AEC-Q101, SMA	SMA
D11	1	150V	SMAJ150A	Littelfuse	Diode, TVS, Uni, 150 V, 243 Vc, 400 W, 1.6 A, SMA	SMA
D13	1	10V	MMSZ5240BS-7-F	Diodes Inc.	Diode, Zener, 10 V, 200 mW, SOD-323	SOD-323
D14	1	100V	SMAJ100CA	Littelfuse	Diode, TVS, Bi, 100 V, SMA	SMA
D15, D16	2	100V	MMSD4148T1G	ON Semiconductor	Diode, Switching, 100 V, 0.2 A, SOD-123	SOD-123
D21	1	800V	RFU02VSM8STR	Rohm	Diode, Standard Recovery Rectifier, 800 V, .2 A, 2x1.4mm	2x1.4mm
DB1	1	600V	Z4DGP406L-HF	Comchip Technology	Diode, P-N-Bridge, 600 V, 4 A, Z4-D	Z4-D
F1	1		39213150000	Littelfuse	Fuse, 3.15 A, 250VAC/VDC, TH	8x8.5x4mm

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
J1	1		632 723 300 011	Würth Elektronik	Connector, Receptacle, USB Type C, R/A	Connector, Receptacle, USB Type C, R/A, THT/SMT
L1	1		7447052	Würth	WE-FI Leaded Toroidal Line Choke	PTH_D10MM0
L2	1		RLTI-1387	Renco	Common Mode Choke, 2.3mH 35%, 0.6x0.38x0.75 IN	PTH_CMC_0IN38_01N60
L3	1	22uH	BRC2518T220K	Taiyo Yuden	Inductor, Wirewound, 22 uH, 0.49 A, 0.56 ohm, SMD	1007(2518)
Q2	1	600V	IPD60R280P7SAUMA1	Infineon Technologies	MOSFET, N-CH, 600 V, 12 A, DPAK	DPAK
Q3, Q4	2	600V	BSS126H6327XTSA2	Infineon Technologies	MOSFET, N-CH, 600 V, 0.021 A, AEC-Q101, SOT-23	SOT-23
Q5	1	150V	BSC093N15NS5ATMA1	Infineon Technologies	MOSFET, N-CH, 150 V, 87 A, PG-TDSON-8	PG-TDSON-8
Q8	1	100V	BSS123	Fairchild Semiconductor	MOSFET, N-CH, 100 V, 0.17 A, SOT-23	SOT-23
R1	1	7.50k	CRCW04027K50FKED	Vishay-Dale	RES, 7.50 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
R2	1	470k	CRCW0805470KJNEA	Vishay-Dale	RES, 470 k, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	805
R3, R4	2	13k	CRCW120613K0JNEA	Vishay-Dale	RES, 13 k, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R5, R7	2	15	CRCW080515R0JNEA	Vishay-Dale	RES, 15, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	805
R8	1	200k	CRCW0402200KFKED	Vishay-Dale	RES, 200 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
R9	1	91k	CRCW040291K0JNED	Vishay-Dale	RES, 91 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	402
R13	1	39.2k	CRCW040239K2FKED	Vishay-Dale	RES, 39.2 k, 1%, 0.063 W, 0402	402
R14	1	191k	CRCW0402191KFKED	Vishay-Dale	RES, 191 k, 1%, 0.063 W, 0402	402
R15	1	100	CRCW0805100RJNEA	Vishay-Dale	RES, 100, 5%, 0.125 W, 0805	805
R16, R29	2	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	402
R17	1	0	CRCW04020000Z0EDHP	Vishay-Dale	RES, 0, 0%, 0.2 W, AEC-Q200 Grade 0, 0402	402
R18, R27	2	511	CRCW0402511R1FKED	Vishay-Dale	RES, 511, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
R19, R103	2	1.2k	CRCW04021K20JNED	Vishay-Dale	RES, 1.2 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	402
R20	1	56.2k	CRCW040256K2FKED	Vishay-Dale	RES, 56.2 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
R21	1	0.22	MCR25JZHFLR220	Rohm	RES, 0.22, 1%, 0.5 W, 1210	1210
R23	1	13.3k	CRCW040213K3FKED	Vishay-Dale	RES, 13.3 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
R24, R100	2	1.0Meg	CRCW04021M00JNED	Vishay-Dale	RES, 1.0 M, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	402
R25, R31	2	150k	ERJ-2RKF1503X	Panasonic	RES, 150 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	402
R26, R32	2	15.0k	CRCW040215K0FKED	Vishay-Dale	RES, 15.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
R28	1	24.9k	CRCW040224K9FKED	Vishay-Dale	RES, 24.9 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
R30	1	20.0k	CRCW040220K0FKED	Vishay-Dale	RES, 20.0 k, 1%, 0.063 W, 0402	402
R33	1	0.82	ERJ-6RQFR82V	Panasonic	RES, 0.82, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	805
R35	1	100	CRCW0402100R1JNED	Vishay-Dale	RES, 100, 5%, 0.063 W, 0402	402
R40	1	10Meg	CRCW060310M0JNEA	Vishay-Dale	RES, 10 M, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R42	1	100k	RC0402FR-07100KL	Yageo America	RES, 100 k, 1%, 0.0625 W, 0402	402
R44	1	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	402
R52	1	1	CRCW04021R00JNED	Vishay-Dale	RES, 1.0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	402
R55	1	1.0Meg	CRCW04021M00JNED	Vishay-Dale	RES, 1.0 M, 5%, 0.063 W, 0402	402
R101	1	681k	CRCW0402681KFKED	Vishay-Dale	RES, 681 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
R102	1	470k	CRCW0402470KJNED	Vishay-Dale	RES, 470 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	402
R104	1	2.21Meg	CRCW04022M21FKED	Vishay-Dale	RES, 2.21 M, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
RT1	1	47k	NCP18WB473J03RB	MuRata	Thermistor NTC, 47k ohm, 5%, 0603	603
T1	1		RLTI-1335	Renco Electronics	MODIFIED RLTI-1335 TRANSFORMER	PTH_0IN980_0IN766
TP1, TP4	2		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
TP2	1		5012	Keystone	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
TP3, TP5	2		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
U1	1		UCC28782RTW	Texas Instruments	UCC28782RTW, RTW0024B (WQFN-24)	RTW0024B

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
U4	1		UCC5304DWV	Texas Instruments	4-A/6-A, Single-Channel Reinforced Isolation Gate Driver with High Noise Immunity, DWV0008A (SOIC-8)	DWV0008A
U5	1		ATL431AIDBZR	Texas Instruments	2.5V Low Iq Adjustable Precision Shunt Regulator, DBZ0003A (SOT-23-3)	DBZ0003A
U7	1		TPS7B4250QDBVRQ1	Texas Instruments	50-mA 40-V Voltage-Tracking LDO With 5-mV Tracking Tolerance, DBV0005A (SOT-23-5)	DBV0005A
U8	1		TLP383(GR-TPL,E	Toshiba	Optoisolator Transistor Output 5000Vrms 1 Channel 6-SO	SO6-4
U100	1		TLV7021DCKR	Texas Instruments	Small-Size Micropower Low-Voltage Comparator, DCK0005A (SOT-SC70-5)	DCK0005A
C33	0	1000pF	GRM21AR72E102KW01D	MuRata	CAP, CERM, 1000 pF, 250 V, +/- 10%, X7R, 0805	805
J2	0		GRPB051VWVN-RC	Sullins Connector Solutions	Header, 50mil, 5x1, Gold, TH	Header, 50mil, 5x1, TH
J3	0		GRPB041VWVN-RC	Sullins Connector Solutions	Header, 50mil, 4x1, Gold, TH	TH, Header, 1.27 mm, 4x1, Straight
R6	0	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	402
R36	0	1.0Meg	CRCW04021M00JNED	Vishay-Dale	RES, 1.0 M, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	402
R53	0	10	CRCW120610R0JNEA	Vishay-Dale	RES, 10, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206

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