

PMP21582 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB1	1		PMP21582	Any	Printed Circuit Board	
C1	1	0.1uF	GRM155R71E104KE14D	MuRata	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0402	0402
C2, C3, C4	3	4.7uF	C3216X7R1E475K085AB	TDK	CAP, CERM, 4.7 uF, 25 V, +/- 10%, X7R, 1206	1206
C5, C14	2	680uF	LAR2E681MELC25	Nichicon	CAP, AL, 680 uF, 250 V, +/- 20%, TH	D35xL27mm
C6	1	2.2uF	C3216X7R1H225K160AB	TDK	CAP, CERM, 2.2 uF, 50 V, +/- 10%, X7R, 1206	1206
C7, C10	2	100pF	DE2B3KY101KN3AU02F	MuRata	CAP, CERM, 100 pF, X1 250 VAC/Y2 300 VAC, +/- 10%, B, TH	TH, 2- Leads, Body 7x5mm, Pin Spacing 7.5mm
C8	1	0.47uF	890324024005	Würth Elektronik	CAP, Film, 0.47 uF, 275 V, +/- 10%, TH	15x10mm
C9	1	0.33uF	ECQ-U2A334ML	Panasonic	CAP, Film, 0.33 uF, 275 V, +/- 20%, TH	RCAP, 17.5x17.5x9.5mm
C11	1	0.047uF	GRM155R71A473KA01D	MuRata	CAP, CERM, 0.047 uF, 10 V, +/- 10%, X7R, 0402	0402
C12	1	0.15uF	C1608X7R1H154K080AB	TDK	CAP, CERM, 0.15 uF, 50 V, +/- 10%, X7R, 0603	0603
C13	1	100pF	885012205055	Würth Elektronik	CAP, CERM, 100 pF, 50 V, +/- 10%, X7R, 0402	0402
C16, C17	2	680uF	EEUFC1J681S	Panasonic	CAP, AL, 680 uF, 63 V, +/- 20%, AEC-Q200 Grade 2, TH	Dia 18mm
C18, C19, C20, C21, C28, C29	6	10uF	UMK325AB7106KM-T	Taiyo Yuden	CAP, CERM, 10 uF, 50 V, +/- 10%, X7R, 1210	1210
C22, C23, C30	3	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
C24	1	0.047uF	ECWH12473JV	Panasonic	CAP, Film, 0.047 uF, 1250 V, +/- 5%, TH	23x11.5mm
C25	1	220pF	VJ1210Y221KXGAT5Z	Vishay-Vitramon	CAP, CERM, 220 pF, 1000 V, +/- 10%, X7R, 1210	1210
C26	1	68pF	GRM31A7U3A680JW31D	MuRata	CAP, CERM, 68 pF, 1000 V, +/- 5%, U2J, 1206	1206
C27	1	220uF	EKZE500ELL221MJ16S	Chemi-Con	CAP, AL, 220 uF, 50 V, +/- 20%, TH	D10xL16mm
C32	1	6800pF	GRM155R71H682KA88D	MuRata	CAP, CERM, 6800 pF, 50 V, +/- 10%, X7R, 0402	0402
C33	1	10uF	TPSC106K025R0300	AVX	CAP, TA, 10 uF, 25 V, +/- 10%, 0.3 ohm, SMD	6032-28
C34	1	100uF	TPSC107K006R0075	AVX	CAP, TA, 100 uF, 6.3 V, +/- 10%, 0.075 ohm, SMD	6032-28
C35	1	120uF	ELXZ500ELL121MH15D	Chemi-Con	CAP, AL, 120 uF, 50 V, +/- 20%, AEC-Q200 Grade 2, TH	D8xL18mm
C36	1	2.2uF	C2012X5R1H225K125AB	TDK	CAP, CERM, 2.2 uF, 50 V, +/- 10%, X5R, 0805	0805
C100	1	1000pF	C0603C102J5RACAUTO	Kemet	CAP, CERM, 1000 pF, 50 V, +/- 5%, X7R, AEC-Q200 Grade 1, 0603	0603
C101, C102	2	2200pF	GCM155R71H222KA37D	MuRata	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
C103	1	3300pF	VY1332M59Y5UQ6TV0	Vishay-Bccomponents	CAP, CERM, 3300 pF, 760 V, +/- 20%, Y5U, D15xT5mm	D15xT5mm
D1	1	600V	ES1JAF	Fairchild Semiconductor	Diode, Ultrafast, 600 V, 1 A, AEC-Q101, SMAF	SMAF
D2	1	420V	GBU8J-BP	Micro Commercial Componen	Diode, Switching-Bridge, 420 V, 8 A, TH	GBU
D3	1	6.8V	MMSZ5235B-7-F	Diodes Inc.	Diode, Zener, 6.8 V, 500 mW, SOD-123	SOD-123
D5, D6	2	100V	MMDL914-TP	Micro Commercial Componen	Diode, Switching, 100 V, 0.2 A, SOD-323	SOD-323
D7, D10	2	100V	MBR10100G	ON Semiconductor	Diode, Schottky, 100 V, 10 A, TH	TO-220AC
D8, D9	2	40V	B340A-13-F	Diodes Inc.	Diode, Schottky, 40 V, 3 A, SMA	SMA
D11	1	200V	STPS2200UF	STMicroelectronics	Diode, Schottky, 200 V, 2 A, SMB	SMB
F1	1		37216300001	Littelfuse	Fuse, 6.3 A, 250VAC/VDC, TH	TR5 fuse 8.5mm DIA
H1	1		513002B02500G	Aavid	HEATSINK TO-220 W/PINS 1" TALL	HEATSINK TO-220 W/PINS 1" TALL
H100, H101, H102	3		577202B00000G	Aavid		
J1	1		703W-00/54	Qualtek Electronics Corporatio	AC Receptacle, 10A 250VAC	20X50X28.7mm
J2	1		ED120/2DS	On-Shore Technology	Terminal Block, 5.08 mm, 2x1, Brass, TH	2x1 5.08 mm Terminal Block
J3	1		ED120/3DS	On-Shore Technology	Terminal Block, 5.08 mm, 3x1, Brass, TH	3x1 5.08 mm Terminal Block

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L1	1	850uH	750318019	Würth Elektronik	Coupled inductor, 850 µH, 0.0154 ohm, TH	18.5x14.5mm
L100	1	29uH	7447016	Würth Elektronik	Inductor, Toroid, Ferrite, 29 uH, 7.8 A, 0.015 ohm, TH	19x10.5mm
Q1, Q2	2	650V	IPP65R310CFDXKSA1	Infineon Technologies	MOSFET, N-CH, 650 V, 11.4 A, TO-220-3	
R1	1	2.2	CRCW04022R20JNED	Vishay-Dale	RES, 2.2, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R2, R4, R11, R15, R22, R26	6	332k	CRCW1206332KFKEA	Vishay-Dale	RES, 332 k, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R3	1	4.3Meg	CRCW12064M30JNEA	Vishay-Dale	RES, 4.3 M, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R5, R21, R25	3	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R6, R7, R8	3	1.50k	CRCW12061K50FKEA	Vishay-Dale	RES, 1.50 k, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R9, R12, R20	3	226k	CRCW1206226KFKEA	Vishay-Dale	RES, 226 k, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R10, R13	2	3.6Meg	CRCW12063M60JNEA	Vishay-Dale	RES, 3.6 M, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R14, R18, R34	3	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R16	1	1.69Meg	CRCW04021M69FKED	Vishay-Dale	RES, 1.69 M, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R17	1	4.99k	CRCW04024K99FKED	Vishay-Dale	RES, 4.99 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R19	1	115k	CRCW0402115KFKED	Vishay-Dale	RES, 115 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R23	1	453k	CRCW0402453KFKED	Vishay-Dale	RES, 453 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R24	1	127k	CRCW1206127KFKEA	Vishay-Dale	RES, 127 k, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R27	1	11.3k	CRCW040211K3FKED	Vishay-Dale	RES, 11.3 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R28, R30	2	10	RC0805JR-0710RL	Yageo America	RES, 10, 5%, 0.125 W, 0805	0805
R29, R31	2	10.0k	MCU08050C1002FP500	Vishay/Beyschlag	RES, 10.0 k, 1%, 0.2 W, 0805	0805
R32	1	110	CRCW0402110RFKED	Vishay-Dale	RES, 110, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R100, R101	2	13	CRCW120613R0JNEA	Vishay-Dale	RES, 13, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
RT1	1	5	B57211P0509M351	TDK	Thermistor NTC, 5 ohm, 20%, 13x6mm	13x6mm
T1	1	500uH	SRX48EM-P301400	TDK	Transformer, 500 uH, TH	57x50mm
U1	1		UCC25630-2DDBR	Texas Instruments	LLC Resonant Controller With High Voltage Start Up Enabling Low Standby Power, DDB0014A (SOIC-14)	DDB0014A
U2	1		VO618A-3	Vishay-Semiconductor	Optocoupler, 5.3 kV, 50-600% CTR, TH	DIP, 4-Leads, Body 6.86x4.83mm, Pitch 2.54mm
U3	1		TLVH431AQDBZR	Texas Instruments	Low-Voltage Adjustable Precision Shunt Regulator, 80 mA, -40 to 125 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
U4	1		LM1117T-3.3/NOPB	Texas Instruments	800mA Low-Dropout Linear Regulator, 3-pin TO-220, Pb-Free	NDE0003A
C15, C31	0	100pF	885012205055	Würth Elektronik	CAP, CERM, 100 pF, 50 V, +/- 10%, X7R, 0402	0402
R33	0	32.4k	CRCW040232K4FKED	Vishay-Dale	RES, 32.4 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402

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