

PMP21251 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPC100	1		PMP21251	Any	Printed Circuit Board	
C100, C110	2	100pF	DE1B3RA101KN4AN01F	MuRata	CAP, CERM, 100 pF, X1 440 VAC/Y1 250 VAC, +/- 10%, B, D6xT4mm	D6xT4mm
C101, C102, C111, C112	4	220pF	DE1B3RA221KN4AN01F	MuRata	CAP CER 220PF 250V RAD	D6xT4mm
C103	1	100uF	EKM451VSN101MP30S	United Chemi-Con	CAP ALUM 100UF 20% 450V SNAP	D22xL45mm
C104	1	0.1uF	890324023023CS	Würth Elektronik	CAP, Film, 0.1 µF, X2 275 VAC, +/- 10%, TH	13x7mm
C105	1	0.22uF	890324023028CS	Würth Elektronik	CAP, Film, 0.22 µF, X2 275 VAC, +/- 10%, TH	13x7mm
C106	1	0.47uF	890324024005	Würth Elektronik	CAP, Film, 0.47 µF, X2 275 VAC, +/- 10%, TH	15x10mm
C107	1	0.22uF	ECW-FD2W224KQ	Panasonic Electronic Compon	0.22µF ±10% Film Capacitor 450V Polypropylene (PP), Metallized Radial	18x6.5mm
C108	1	0.47uF	450MPK474J	Rubycon	CAP, Film, 0.47 µF, 450 V, +/- 5%, TH	18x6.5mm
C109	1	10pF	VJ0805A100JXGAT5Z	Vishay-Vitramon	CAP, CERM, 10 pF, 1000 V,+/- 5%, C0G/NP0, 0805	0805
C113	1	0.1uF	GRM188R61E104KA01D	MuRata	CAP, CERM, 0.1 µF, 25 V,+/- 10%, X5R, 0603	0603
C114	1	3300pF	06031C332JAT2A	AVX	CAP, CERM, 3300 pF, 100 V,+/- 5%, X7R, 0603	0603
C115	1	680pF	GRM1885C1H681JA01D	MuRata	CAP, CERM, 680 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
C116	1	0.01uF	885012206040	Würth Elektronik	CAP, CERM, 0.01 µF, 16 V,+/- 10%, X7R, 0603	0603
C117	1	0.47uF	08053D474KAT2A	AVX	CAP, CERM, 0.47 µF, 25 V,+/- 10%, X5R, 0805	0805
C118	1	1uF	C0603C105K3RACTU	Kemet	CAP, CERM, 1 µF, 25 V,+/- 10%, X7R, 0603	0603
C119	1	10uF	ECA-1HHG100	Panasonic	CAP, AL, 10 µF, 50 V, +/- 20%, TH	D5xL11mm
C120	1	0.033uF	C0603C333J3RACTU	Kemet	CAP, CERM, 0.033 µF, 25 V,+/- 5%, X7R, 0603	0603
C121	1	0.47uF	CGA5L2X7R1H474K160AA	TDK	CAP, CERM, 0.47 µF, 50 V,+/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
C122	1	10pF	0603ZC100KAT2A	AVX	CAP, CERM, 10 pF, 10 V,+/- 10%, X7R, 0603	0603
C200, C213	2	1uF	C0603C105K4PACTU	Kemet	CAP, CERM, 1uF, 16V, +/-10%, X5R, 0603	0603
C201, C205	2	0.01uF	B32621A6103K189	EPCOS (TDK)	CAP FILM 10000PF 10% 630VDC RAD	
C202, C203, C211, C212	4	22uF	EMK316BB7226ML-T	Taiyo Yuden	CAP, CERM, 22 µF, 16 V,+/- 20%, X7R, 1206	1206
C204	1	1uF	GRM319R61E105KC36D	MuRata	CAP, CERM, 1 µF, 25 V,+/- 10%, X5R, 1206	1206
C206	1	150pF	GRM31A5C2J151JW01D	MuRata	CAP, CERM, 150 pF, 630 V, +/- 5%, C0G/NP0, 1206	1206
C207	1	150pF	GRM31A5C2J151JW01D	MuRata	CAP, CERM, 150 pF, 630 V,+/- 5%, C0G/NP0, 1206	1206
C208	1	470uF	APSC160ELL471MJB5S	Chemi-Con	CAP ALUM POLY 470UF 20% 16V T/H	Cap, 10x12.5mm
C209, C210	2	2200uF	EEU-FM1C222	Panasonic	CAP ALUM 2200UF 20% 16V RADIAL	D12.5xL20
C215	1	2200pF	DE1E3KX222MA5BA01	MuRata	CAP, CERM, 2200 pF, 250 V, +/- 20%, E, Disc 10x8mm	Disc 10x8mm
C216, C218	2	2.2uF	885012106018	Würth Elektronik	CAP, CERM, 2.2 µF, 16 V,+/- 20%, X5R, 0603	0603
C217, C219	2	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1 µF, 25 V,+/- 5%, X7R, 0603	0603
C220	1	2.2uF	C1206C225K4RACTU	Kemet	CAP, CERM, 2.2 µF, 16 V, +/- 10%, X7R, 1206	1206
C221	1	100pF	06035A101JAT2A	AVX	CAP, CERM, 100 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
C222	1	0.047uF	06033C473JAT2A	AVX	CAP, CERM, 0.047 µF, 25 V,+/- 5%, X7R, 0603	0603
C223, C224	2	2.2uF	GRM188R6YA225KA12D	MuRata	CAP, CERM, 2.2 µF, 35 V, +/- 10%, X5R, 0603	0603
C226	1	1000uF	EEU-FR1V102B	Panasonic	CAP ALUM 1000UF 20% 35V RADIAL	D12.5xL25mm
C228, C229, C230	3	4.7uF	GRM188R61C475KAAJ	MuRata	CAP, CERM, 4.7 µF, 16 V, +/- 10%, X5R, 0603	0603
C231	1	0.01uF	06031C103JAT2A	AVX	CAP, CERM, 0.01 µF, 100 V,+/- 5%, X7R, 0603	0603
C232	1	0.047uF	C1608X7R1H473K080AA	TDK	CAP, CERM, 0.047 µF, 50 V, +/- 10%, X7R, 0603	0603
C233	1	0.012uF	C0603C123J3GACTU	Kemet	CAP, CERM, 0.012 µF, 25 V,+/- 5%, C0G/NP0, 0603	0603
C234	1	2.2pF	06035A2R2CAT2A	AVX	CAP, CERM, 2.2 pF, 50 V, +/- 11%, C0G/NP0, 0603	0603
C235	1	220pF	GRM188R71H221KA01D	MuRata	CAP, CERM, 220 pF, 50 V, +/- 10%, X7R, 0603	0603
C300, C301	2	0.1uF	GRM155R61C104KA88D	MuRata	CAP, CERM, 0.1uF, 16V, +/-10%, X5R, 0402	0402
C302	1	47pF	12067A470JAT2A	AVX	CAP, CERM, 47 pF, 500 V,+/- 5%, C0G/NP0, 1206	1206

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C303	1	10pF	GRM1555C1H100RA01D	MuRata	CAP, CERM, 10 pF, 50 V,+/- 4%, COG/NP0, 0402	0402
C304	1	100pF	GRM1555C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V,+/- 5%, COG/NP0, 0402	0402
C305	1	0.1uF	GRM155R61E104KA87D	MuRata	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X5R, 0402	0402
C306	1	0.01uF	C0603C103J3GECAUTO	Kemet	CAP, CERM, 0.01 uF, 25 V,+/- 5%, COG/NP0, AEC-Q200 Grade 1, 0603	0603
C307	1	0.022uF	C0603C223K5RACTU	Kemet	CAP, CERM, 0.022 uF, 50 V,+/- 10%, X7R, 0603	0603
D100	1	600V	STTH5L06B-TR	STMicroelectronics	DIODE GEN PURP 600V 5A DPAK	DPAK
D101, D102, D103, D104	4	600V	S5J-E3/57T	Vishay-Semiconductor	Diode, P-N, 600 V, 5 A, SMC	SMC
D105, D108, D200, D201	4	100V	MMDL914-TP	Micro Commercial Component	Diode, Switching, 100 V, 0.2 A, SOD-323	SOD-323
D106, D107	2	1.05V	MURA160T3G	ON Semiconductor	Diode, Ultrafast, 600V, 1A, SMA	SMA
D109	1	100V	1N4148WFL-G3-08	Vishay-Semiconductor	Diode, Switching, 100 V, 0.15 A, SOD-123FL	SOD-123FL
D202	1	60V	STPS160UY	STMicroelectronics	Diode, Schottky, 60 V, 1 A, AEC-Q101, SMB	SMB
D204	1	600V	ES1JAF	Fairchild Semiconductor	Diode, Ultrafast, 600 V, 1 A, AEC-Q101, SMAF	SMAF
D205	1	100V	1N4148W-7-F	Diodes Inc.	Diode, Ultrafast, 100 V, 0.15 A, SOD-123	SOD-123
D206	1	6.2V	MMSZ5234B-7-F	Diodes Inc.	Diode, Zener, 6.2 V, 500 mW, SOD-123	SOD-123
D300	1	1V	BAT42WS	Diodes Inc.	Diode, Schottky, 30V, 0.2A, SOD-323	SOD-323
D301	1	70V	BAS70-06-7-F	Diodes Inc.	Diode, Schottky, 70 V, 0.07 A, SOT-23	SOT-23
D302	1	15V	MM5Z15VT1G	ON Semiconductor	DIODE ZENER 15V 200MW SOD523	SOD-523
F100	1		37213150001	Littelfuse	Fuse, 3.15 A, 250VAC/VDC, TH	TR5 fuse 8.5mm DIA
J200	1		ED120/4DS	On-Shore Technology	Terminal Block, 5.08 mm, 4x1, Brass, TH	4x1 5.08 mm Terminal Block
L100	1	200uH	750316570	Würth Elektronik	Inductor, 200 uH, 0.235 ohm, TH	TH, 5-Leads, Body 26.16x26.16mm
L101	1	100uH	7447021	Würth Elektronik	100uH Unshielded Toroidal Inductor 2A 80 mOhm Max Radial	IND_TORROID_15.8x7.5mm
L102	1	1mH	744821201	Würth Elektronik	Coupled inductor, 1 mH, 2 A, 0.045 ohm, TH	15 x 18 x 7.5mm
L103	1	10mH	744823210	Würth Elektronik	Coupled inductor, 10 mH, 2 A, 0.125 ohm, TH	13x22x17.5mm
Q100	1	600V	STD13NM60ND	STMicroelectronics	MOSFET, N-CH, 600 V, 11 A, DPAK	DPAK
Q101	1	600V	IPB60R199CP	Infineon Technologies	MOSFET, N-CH, 600 V, 16 A, DPAK	DDPAK
Q102	1	40 V	MMBT4403	Fairchild Semiconductor	Transistor, PNP, 40 V, 0.6 A, SOT-23	SOT-23
Q103, Q302	2	40 V	MMBT4401-7-F	Diodes Inc.	Transistor, NPN, 40 V, 0.15 A, SOT-23	SOT-23
Q200, Q202	2	550V	STD16N50M2	STMicroelectronics	MOSFET, N-CH, 550 V, 13 A, DPAK	DPAK
Q201, Q203	2	40V	CSD18501Q5A	Texas Instruments	MOSFET, N-CH, 40 V, 22 A, DQJ0008A (VSONP-8)	DQJ0008A
Q300	1	40 V	MMBT3906	Fairchild Semiconductor	Transistor, PNP, 40 V, 0.2 A, SOT-23	SOT-23
Q301	1	60V	2N7002ET1G	ON Semiconductor	MOSFET, N-CH, 60V, 0.26A, SOT-23	SOT-23
R100, R101, R105, R106, R109, R115	6	3.24Meg	CRCW12063M24FKEA	Vishay-Dale	RES, 3.24 M, 1%, 0.25 W, 1206	1206
R102, R201, R208	3	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
R103	1	1.00Meg	CRCW06031M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.1 W, 0603	0603
R104	1	20.0k	CRCW080520K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.125 W, 0805	0805
R107	1	1.00	CRCW06031R00FKEA	Vishay-Dale	RES, 1.00, 1%, 0.1 W, 0603	0603
R108	1	24.3k	CRCW060324K3FKEA	Vishay-Dale	RES, 24.3 k, 1%, 0.1 W, 0603	0603
R110	1	3.0k	CRCW06033K00JNEA	Vishay-Dale	RES, 3.0 k, 5%, 0.1 W, 0603	0603
R111, R303, R305	3	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R112, R113	2	0.13	CSR1206FTR130	Stackpole Electronics Inc	RES, 0.13, 1%, 0.5 W, 1206	1206
R114	1	453k	CRCW1206453KFKEA	Vishay-Dale	RES, 453 k, 1%, 0.25 W, 1206	1206
R116, R123	2	75.0k	CRCW060375K0FKEA	Vishay-Dale	RES, 75.0 k, 1%, 0.1 W, 0603	0603
R117, R210	2	36.5k	CRCW060336K5FKEA	Vishay-Dale	RES, 36.5 k, 1%, 0.1 W, 0603	0603
R118	1	120k	RC0603FR-07120KL	Yageo America	RES, 120 k, 1%, 0.1 W, 0603	0603
R119	1	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, 0603	0603

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R120, R124	2	390k	RC0603FR-07390KL	Yageo America	RES, 390 k, 1%, 0.1 W, 0603	0603
R121	1	10.0	CRCW080510R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.125 W, 0805	0805
R122	1	180k	RC0603FR-07180KL	Yageo America	RES, 180 k, 1%, 0.1 W, 0603	0603
R200, R205	2	10.0k	CRCW080510K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.125 W, 0805	0805
R202, R226, R304	3	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R203, R204, R206, R207	4	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
R209	1	0.001	CSNL2010FT1L00	Stackpole Electronics Inc	RES, 0.001, 1%, 1.5 W, 2010	2010
R211	1	8.45k	RC0603FR-078K45L	Yageo America	RES, 8.45 k, 1%, 0.1 W, 0603	0603
R212	1	2.2	CRCW06032R20JNEA	Vishay-Dale	RES, 2.2, 5%, 0.1 W, 0603	0603
R213	1	20.0	CRCW060320R0FKEA	Vishay-Dale	RES, 20.0, 1%, 0.1 W, 0603	0603
R214, R220, R223	3	4.99Meg	CRCW12064M99FKEA	Vishay-Dale	RES, 4.99 M, 1%, 0.25 W, 1206	1206
R215	1	10.0k	ERJ-3EKF1002V	Panasonic	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R216	1	1.50k	CRCW06031K50FKEA	Vishay-Dale	RES, 1.50 k, 1%, 0.1 W, 0603	0603
R217, R218, R219	3	1.65k	CRCW12061K65FKEA	Vishay-Dale	RES, 1.65 k, 1%, 0.25 W, 1206	1206
R221	1	6.04k	CRCW06036K04FKEA	Vishay-Dale	RES, 6.04 k, 1%, 0.1 W, 0603	0603
R222, R227	2	150k	CRCW0603150KFKEA	Vishay-Dale	RES, 150 k, 1%, 0.1 W, 0603	0603
R224	1	25.5k	CRCW060325K5FKEA	Vishay-Dale	RES, 25.5 k, 1%, 0.1 W, 0603	0603
R225	1	806k	CRCW0603806KFKEA	Vishay-Dale	RES, 806 k, 1%, 0.1 W, 0603	0603
R228	1	68.1	CRCW060368R1FKEA	Vishay-Dale	RES, 68.1, 1%, 0.1 W, 0603	0603
R229	1	44.2k	CRCW060344K2FKEA	Vishay-Dale	RES, 44.2 k, 1%, 0.1 W, 0603	0603
R230	1	17.4k	CRCW060317K4FKEA	Vishay-Dale	RES, 17.4 k, 1%, 0.1 W, 0603	0603
R231	1	0	5108	Keystone	RES, 0, 1%, 0.5 W, 1206	1206
R300	1	2.21Meg	CRCW06032M21FKEA	Vishay-Dale	RES, 2.21 M, 1%, 0.1 W, 0603	0603
R301	1	619k	CRCW0402619KFKEA	Vishay-Dale	RES, 619k ohm, 1%, 0.063W, 0402	0402
R302	1	0	ERJ-2GE0R00X	Panasonic	RES, 0 ohm, 5%, 0.063W, 0402	0402
R306	1	100k	CRCW0402100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
R307, R308	2	4.75	CRCW04024R75FKED	Vishay-Dale	RES, 4.75, 1%, 0.063 W, 0402	0402
R309	1	2.00k	CPF0603B2K0E	TE Connectivity	RES, 2.00 k, 0.1%, 0.063 W, 0603	0603
R310	1	100	ATC504L1000FTNCFT	AT Ceramics	RES, 100, 1%, 0.125 W, AEC-Q200 Grade 1, 0402	0402
R311	1	7.50k	RC0603FR-077K5L	Yageo America	RES, 7.50 k, 1%, 0.1 W, 0603	0603
R312	1	432k	CRCW0603432KFKEA	Vishay-Dale	RES, 432 k, 1%, 0.1 W, 0603	0603
R313	1	2.0k	RC0603JR-072KL	Yageo America	RES, 2.0 k, 5%, 0.1 W, 0603	0603
R314	1	2.2Meg	CRCW06032M20JNEA	Vishay-Dale	RES, 2.2 M, 5%, 0.1 W, 0603	0603
R315	1	30.1k	CRCW060330K1FKEA	Vishay-Dale	RES, 30.1 k, 1%, 0.1 W, 0603	0603
R316, R317	2	41.2k	CRCW060341K2FKEA	Vishay-Dale	RES, 41.2 k, 1%, 0.1 W, 0603	0603
RT100	1	10 ohm	B57236S0100M000	TDK	Thermistor NTC, 10 ohm, 20%, Disc_11.5mmx6mm	Disc_11.5mmx6mm
RV100	1		S10K275E2	EPCOS Inc	Varistor 275V RMS 10MM Radial, TH	10mm Radial
T200	1	600uH	760895431	Wurth Elektronik	Transformer, 600 uH, TH	36x36mm
TP200	1		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP201	1		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
TP_L	1		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
TP_N	1		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
TP_PE	1		5012	Keystone	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
U100	1		UCC28056DBV	Texas Instruments	6-Pin Single-Phase Transition-Mode PFC Controller, DBV0006A (SOT-23-6)	DBV0006A

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
U200	1		TPS71550DCKR	Texas Instruments	50 mA, 24 V, 3.2-uA Iq, Low-Dropout Linear Regulator in SC70 Package, DCK0005A (SOT-SC70-5)	DCK0005A
U201, U202	2		UCC24612-2DBVR	Texas Instruments	UCC24612-2DBV, DBV0005A (SOT-23-5)	DBV0005A
U203	1		UCC256304DDB	Texas Instruments	Enhanced LLC Resonant Controller with Driver, DDB0014A	DDB0014A
U204	1		VO618A-3	Vishay-Semiconductor	OPTOISOLATOR 5.3KV TRANS 4-DIP	DIP, 4-Leads, Body 6.86x4.83mm, Pitch 2.54mm
U205	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
U300	1		TMP300BIDCKR	Texas Instruments	Resistor-Programmable, up to 18V-Capable Temp Switch and Analog Out Sensor, DCK0006A (SOT-SC70-6)	DCK0006A
U301	1		TL331IDBVR	Texas Instruments	SINGLE DIFFERENTIAL COMPARATOR, DBV0005A (SOT-23-5)	DBV0005A
U302	1		INA180A4IDBV	Texas Instruments	Low- and High-Side Measurement, Multichannel, Voltage Output, Current-Sense Amplifier, DBV0005A (SOT-23-5)	DBV0005A
U303	1		FOD817D	Fairchild Semiconductor	OPTOISOLATOR 5KV TRANSISTOR 4DIP	DIP, 4-Leads, Body 6.86x4.83mm, Pitch 2.54mm
C123	0	2200pF	C0603C222K5RACTU	Kemet	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	0603
C225	0	47pF	GRM1885C1H470FA01J	MuRata	CAP, CERM, 47 pF, 50 V, +/- 1%, C0G/NP0, 0603	0603
C227	0	3300pF	GRM1885C1H332JA01D	MuRata	CAP, CERM, 3300 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603

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