

PMP21683 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
IPCB100	1		PMP21683	Any	Printed Circuit Board	
C100	1	100uF	860241480001	Wurth	CAP ALUM 100UF 20% 450V RADIAL	D16xL25mm
C101	1	22uF	25ML22MEFC5X5	Rubycon	CAP, AL, 22 μ F, 25 V, +/- 20%, TH	RCAP, 5x5mm
C102	1	0.01uF	GRM31BR72J103KW01L	MuRata	CAP, CERM, 0.01uF, 630V, +/- 10%, X7R, 1206	1206
C103	1	0.1uF	C1812W104KDRCTU	Kemet	CAP, CERM, 0.1 μ F, 1000 V, +/- 10%, X7R, 1812	1812
C104, C132, C144	3	2.2uF	GRM188R6YA225KA12D	MuRata	CAP, CERM, 2.2 μ F, 35 V, +/- 10%, X5R, 0603	0603
C105	1	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1 μ F, 25 V, +/- 5%, X7R, 0603	0603
C106	1	1uF	GRM185R61A105KE36D	MuRata	CAP, CERM, 1 μ F, 10 V, +/- 10%, X5R, 0603	0603
C107	1	2200pF	DE1E3KX222MA5BA01	MuRata	CAP, CERM, 2200 pF, 250 V, +/- 20%, E, Disc 10x8mm	Disc 10x8mm
C108, C131	2	0.068uF	890303325004CS	Wurth Elektronik	CAP, Film, 0.068 μ F, 630 V, +/- 5%, 0.10518 ohm, TH	18x6mm
C109, C118	2	100uF	PCR1J101MCL1GS	Nichicon	CAP, Aluminum Polymer, 100 uF, 63 V, +/- 20%, 0.024 ohm, SMD, 2-Leads, Dia 10.5mm, Pin Spacing 8mm SMD	SMD, 2-Leads, Dia 10.5mm, Pin Spacing 8mm
C110, C111, C112, C113, C114, C115, C116, C117, C119, C120, C121, C122, C123, C124, C125, C126, C127, C128	18	2.2uF	GRM31CR72A225KA73L	MuRata	CAP, CERM, 2.2 μ F, 100 V, +/- 10%, X7R, 1206_190	1206_190
C129, C130	2	150pF	GRM31A7U3A151JW31D	MuRata	CAP, CERM, 150 pF, 1000 V, +/- 5%, U2J, 1206	1206
C133	1	2.2uF	C3216X5R1H225K160AB	TDK	CAP, CERM, 2.2 μ F, 50 V, +/- 10%, X5R, 1206	1206
C134	1	2.2uF	885012106018	Wurth Elektronik	CAP, CERM, 2.2 μ F, 16 V, +/- 20%, X5R, 0603	0603
C135	1	2.2uF	C0603C225K9PACTU	Kemet	CAP, CERM, 2.2 μ F, 6.3 V, +/- 10%, X5R, 0603	0603
C136	1	2.2uF	C1206C225K4RACTU	Kemet	CAP, CERM, 2.2 μ F, 16 V, +/- 10%, X7R, 1206	1206
C137, C138	2	100pF	06035A101JAT2A	AVX	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C139	1	0.01uF	885012206040	Wurth Elektronik	CAP, CERM, 0.01 μ F, 16 V, +/- 10%, X7R, 0603	0603
C141	1	220uF	860080575012	Wurth	CAP, AL, 220 μ F, 35 V, +/- 10%, TH	D10xL20mm
C142	1	680uF	860040575012	Wurth	CAP, AL, 680 μ F, 35 V, +/- 20%, 0.019 ohm, TH	TH, 2-Leads, 10.5x22mm, Pin Spacing 5mm
C145	1	47pF	GRM1885C1H470FA01J	MuRata	CAP, CERM, 47 pF, 50 V, +/- 1%, C0G/NP0, 0603	0603
C146	1	1000pF	C0603X102K5RACTU	Kemet	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	0603
C147, C148, C149	3	4.7uF	GRM188R61C475KAAJ	MuRata	CAP, CERM, 4.7 μ F, 16 V, +/- 10%, X5R, 0603	0603
C150	1	0.01uF	06031C103JAT2A	AVX	CAP, CERM, 0.01 μ F, 100 V, +/- 5%, X7R, 0603	0603
C151	1	0.1uF	0603YC104JAT2A	AVX	CAP, CERM, 0.1 μ F, 16 V, +/- 5%, X7R, 0603	0603
C152	1	6800pF	06031C682KAT2A	AVX	CAP, CERM, 6800 pF, 100 V, +/- 10%, X7R, 0603	0603
C153	1	2.2pF	06035A2R2CAT2A	AVX	CAP, CERM, 2.2 pF, 50 V, +/- 11%, C0G/NP0, 0603	0603
C154	1	220pF	GRM188R71H221KA01D	MuRata	CAP, CERM, 220 pF, 50 V, +/- 10%, X7R, 0603	0603
D100	1	100V	BAT46WH,115	Nexperia	Diode, Schottky, 100 V, 0.25 A, SOD-123F	SOD-123F
D101, D103	2	100V	MMDL914-TP	Micro Commercial Component	Diode, Switching, 100 V, 0.2 A, SOD-323	SOD-323
D102	1	200V	STPS2200UF	STMicroelectronics	Diode, Schottky, 200 V, 2 A, SMB	SMB
D104	1	600V	ES1JAF	Fairchild Semiconductor	Diode, Ultrafast, 600 V, 1 A, AEC-Q101, SMAF	SMAF
D106	1	100V	1N4148W-7-F	Diodes Inc.	Diode, Ultrafast, 100 V, 0.15 A, SOD-123	SOD-123

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
H100	1		513002B02500G	Aavid	HEATSINK TO-220 W/PINS 1" TALL	HEATSINK TO-220 W/PINS 1" TALL
H101, H106, H107, H108	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
H102, H103, H104, H105	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
J100	1		282856-3	TE Connectivity	Receptacle, 3x1, 5mm, R/A, TH	Receptacle, 3x1, 5mm, R/A, TH
J101, J102	2		1715721	Phoenix Contact	Terminal Block, 5.08 mm, 2x1, TH	2POS Terminal Block
L100	1		RLTI-1304	Renco Electronics	Inductor, Toroid, 0.0345 ohm, TH	Dia 1250mil
Q100, Q101, Q102, Q104, Q105, Q107, Q108, Q109	8	200V	BSC350N20NSFD	Infineon Technologies	MOSFET, N-CH, 200 V, 36 A, PG-TDSON-8	PG-TDSON-8
Q103, Q106	2	600V	IPW60R170CFD7	Infineon Technologies	MOSFET N-CH 600V TO247-3	TO-247
R100, R101, R102, R103, R108, R109, R111, R115	8	3.0	CRCW04023R00JNED	Vishay-Dale	RES, 3.0, 5%, 0.063 W, 0402	0402
R104, R113	2	10.0k	RG2012P-103-B-T5	Susumu Co Ltd	RES, 10.0 k, 0.1%, 0.125 W, 0805	0805
R105, R114	2	10	RC0805JR-0710RL	Yageo America	RES, 10, 5%, 0.125 W, 0805	0805
R106, R107	2	49.9k	CRCW120649K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.25 W, 1206	1206
R110	1	51.1k	CRCW060351K1FKEA	Vishay-Dale	RES, 51.1 k, 1%, 0.1 W, 0603	0603
R112, R139	2	10.0k	RCG060310K0FKEA	Vishay Draloric	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R116	1	0	RMCF06032T0R00	Stackpole Electronics Inc	RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R117	1	2.2	CRCW06032R20JNEA	Vishay-Dale	RES, 2.2, 5%, 0.1 W, 0603	0603
R118	1	20.0	CRCW060320R0FKEA	Vishay-Dale	RES, 20.0, 1%, 0.1 W, 0603	0603
R119, R126, R129	3	4.99Meg	CRCW12064M99FKEA	Vishay-Dale	RES, 4.99 M, 1%, 0.25 W, 1206	1206
R120	1	0	CRCW20100000Z0EF	Vishay-Dale	RES, 0, 5%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
R122	1	1.58k	RG1608P-1581-B-T5	Susumu Co Ltd	RES, 1.58 k, 0.1%, 0.1 W, 0603	0603
R123, R124, R125	3	1.65k	CRCW12061K65FKEA	Vishay-Dale	RES, 1.65 k, 1%, 0.25 W, 1206	1206
R127	1	6.04k	CRCW06036K04FKEA	Vishay-Dale	RES, 6.04 k, 1%, 0.1 W, 0603	0603
R128	1	383k	CRCW0603383K3FKEA	Vishay-Dale	RES, 383 k, 1%, 0.1 W, 0603	0603
R131	1	3.32k	CRCW06033K32FKEA	Vishay-Dale	RES, 3.32 k, 1%, 0.1 W, 0603	0603
R133	1	590k	CRCW0603590KFKEA	Vishay-Dale	RES, 590 k, 1%, 0.1 W, 0603	0603
R135	1	0	5108	Keystone	RES, 0, 1%, 0.5 W, 1206	1206
R136	1	412k	CRCW0603412KFKEA	Vishay-Dale	RES, 412 k, 1%, 0.1 W, 0603	0603
R137	1	68.1	CRCW060368R1FKEA	Vishay-Dale	RES, 68.1, 1%, 0.1 W, 0603	0603
R138	1	127k	CRCW0603127KFKEA	Vishay-Dale	RES, 127 k, 1%, 0.1 W, 0603	0603
T100	1	250uH	RLTI-1303	Renco Electronics	Transformer, 250 uH, TH	2450x2050mil
TP100	1		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP101	1		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
U100	1		TLV70450DBVR	Texas Instruments	Single Output LDO, 150 mA, Fixed 5 V Output, 2.5 to 24 V Input, with Ultra-Low IQ, 5-pin SOT-23 (DBV), -40 to 125 degC, Green (RoHS & no Sb/Br)	DBV0005A
U101	1		UCC24624DR	Texas Instruments	High Performance Synchronous Rectifier Driver for LLC Resonant Converter, D0008A (SOIC-8)	D0008A
U102	1		UCC256302DDB	Texas Instruments	Enhanced LLC Resonant Controller with Driver, DDB0014A	DDB0014A

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
U103	1		VO618A-3	Vishay-Semiconductor	OPTOISOLATOR 5.3KV TRANS 4-DIP	DIP, 4-Leads, Body 6.86x4.83mm, Pitch 2.54mm
U104	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
C140	0	0.1uF	GRM319R72A104KA01D	MuRata	CAP, CERM, 0.1 µF, 100 V, +/- 10%, X7R, 1206	1206
C143	0	2.2uF	GRM188R6YA225KA12D	MuRata	CAP, CERM, 2.2 µF, 35 V, +/- 10%, X5R, 0603	0603
D105	0	33V	MMSZ5257B-7-F	Diodes Inc.	Diode, Zener, 33 V, 500 mW, SOD-123	SOD-123
D107	0	6.2V	MMSZ5234B-7-F	Diodes Inc.	Diode, Zener, 6.2 V, 500 mW, SOD-123	SOD-123
D108	0	100V	MMDL914-TP	Micro Commercial Component	Diode, Switching, 100 V, 0.2 A, SOD-323	SOD-323
D109	0	20V	MMSZ5250BS-7-F	Diodes Inc.	Diode, Zener, 20 V, 200 mW, SOD-323	SOD-323
Q110	0	60 V	FZT651TA	Zetex	Transistor, NPN, 60 V, 3 A, SOT-223	SOT-223
R121	0	10.0k	ERJ-3EKF1002V	Panasonic	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R130	0	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R132	0	1.00Meg	CRCW12061M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.25 W, 1206	1206
R134	0	20.0k	RC0603FR-0720KL	Yageo America	RES, 20.0 k, 1%, 0.1 W, 0603	0603
R140	0	51.1k	CRCW060351K1FKEA	Vishay-Dale	RES, 51.1 k, 1%, 0.1 W, 0603	0603

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