

DNP = "DO NOT POPLUATE"
 TBD = "TO BE DEFINED"



PMP31140 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C5, C12	3	DNP	B32921C3104M	TDK	CAP, Film, 0.1 uF, 305 V, +/- 20%, TH	13x6x12mm
C2, C6	2	22uF	EKXG401ELL220MK20S	Chemicon	CAP, AL, 22 uF, 400 V, +/- 20%, TH	12.5x20mm
C3	1	0.01uF	B32652A0103K	TDK	CAP, Film, 0.01 uF, 1000 V, +/- 10%, TH	2-Pin THD, 5 x 10.5 x 18 mm
C4, C9, C11	3	25F	SCCU25B256SRB	AVX	CAP, Electric Double Layer, 25000000 uF, 2.7 V,+30/--10%, 0.027 ohm, TH	Dia 16mm
C7, C8	2	47uF	GRM32ER71A476KE15L	MuRata	CAP, CERM, 47 uF, 10 V, +/- 10%, X7R, 1210	1210
C10	1	1uF	GRM21BR71C105KA01L	MuRata	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 0805	805
C13	1	4.7uF	C3225X7R1H475K250AB	TDK	CAP, CERM, 4.7 uF, 50 V, +/- 10%, X7R, 1210	1210
C14	1	DNP	DNP	TDK	CAP, CERM, 2.2 uF, 50 V,+/- 10%, X7R, 0805	805
C15	1		8,60011E+11		1000uF 50V Aluminum Electrolytic Capacitors Radial	RADIAL
C16	1	0.1uF	06035C104KAT2A	AVX	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	603
C17	1	2.2uF	C2012X7R1H225K125AC	TDK	CAP, CERM, 2.2 uF, 50 V,+/- 10%, X7R, 0805	805
C18, C19	2	22pF	06035A220JAT2A	AVX	CAP, CERM, 22 pF, 50 V, +/- 5%, C0G/NP0, 0603	603
C20	1	0.015uF	C0805C153K5RACTU	Kemet	CAP, CERM, 0.015 uF, 50 V, +/- 10%, X7R, 0805	805
C21	1	DNP	Used in BOM report	Used in BOM report	CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference]	Used in PnP output and some BOM reports
C22	1	0.047uF	C1608X7R1H473K080AA	TDK	CAP, CERM, 0.047 uF, 50 V,+/- 10%, X7R, 0603	603
C23	1	DNP	DNP	MuRata	CAP, CERM, 2200 pF, 50 V,+/- 10%, X7R, 0603	603
C24	1	2.2uF	GRM21BR71E225KA73L	MuRata	CAP, CERM, 2.2 uF, 25 V,+/- 10%, X7R, 0805	805
C25, C26	2	4700pF	DE2E3KY472MB3BM02F	MuRata	CAP, CERM, 4700 pF, X1 250 VAC/Y2 300 VAC, +/- 20%, E, 10x5x13mm	10x5x13mm
D1, D5	2	800V	MB8S-TP	Micro Commercial Component	Diode, Switching-Bridge, 800 V, 0.5 A, TO269AA	TO269AA
D2	1	130V	SMBJ130A-13-F	Diodes Inc.	Diode, TVS, Uni, 130 V, 193 Vc, SMB	SMB
D3	1	100V	STPS8H100G-TR	STMicroelectronics	Diode, Schottky, 100 V, 8 A, DDPACK	DDPAK
D4	1	800V	US1K-13-F	Diodes Inc.	Diode, Fast Rectifier, 800 V, 1 A, SMA	SMA
D6	1	200V	ES1D-13-F	Diodes Inc.	Diode, Ultrafast, 200 V, 1 A, SMA	SMA
D7	1	18V	MMBZ5248BLT1G	ON Semiconductor	Diode, Zener, 18 V, 225 mW, SOT-23	SOT-23
D8	1	30V	BAT54S-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOT-23	SOT-23
L1, L3, L5, L6	4	SHORT	744732331	Würth Elektronik	Inductor, Unshielded Drum Core, Metal Composite, 330 uH	D9.0xL8.0mm
L2, L4	2	SHORT	744732331	Würth Elektronik	Inductor, Unshielded Drum Core, Metal Composite, 330 uH	D9.0xL8.0mm
Q1	1	60 V	FMMT451	Diodes Inc.	Transistor, NPN, 60 V,	SOT-23
Q2	1			STMicroelectronics	N-Channel 1050V 4A (Tc) 110W (Tc) Through Hole TO-220	TO-220AB
R1, R5, R6, R11	4	2.0Meg	CRCW08052M00JNEA	Vishay-Dale	RES, 2.0 M, 5%, 0.125 W, 0805	805
R2, R9, R15, R17	4	DNP	CRCW120610K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.25 W, 1206	1206
R3, R10	2	10k	CRCW120610K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.25 W, 1206	1206
R4, R29, R32, R35	4	DNP	Used in BOM report	Used in BOM report	RES, xxx ohm, x%, xW, [PackageReference]	Used in PnP output and some BOM reports
R7	1	0	CRCW080530K0JNEA	Vishay-Dale	RES, 30 k, 5%, 0.125 W, 0805	805
R8, R13, R14	3	1.0k	CRCW12061K00JNEA	Vishay-Dale	RES, 1.0 k, 5%, 0.25 W, 1206	1206
R12	1	200	CRCW2010200RFKEF	Vishay-Dale	RES, 200, 1%, 0.75 W, AEC-Q200 Grade 0, 2010	2010

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R16	1	100	CRCW2010100RJNEF	Vishay-Dale	RES, 100, 5%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
R18	1	10	CRCW080510R0FKFA	Vishay-Dale	RES, 10.0, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	805
R19	1	200k	CRCW0805200KFKEA	Vishay-Dale	RES, 200 k, 1%, 0.125 W, 0805	805
R20	1	348k	CRCW0603348KFKEA	Vishay-Dale	RES, 348 k, 1%, 0.1 W, 0603	603
R21, R22	2	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	603
R23	1	49.9	CRCW060349R9FKFA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	603
R24	1	10	RC0805FR-0710RL	Yageo America	RES, 10.0, 1%, 0.125 W, 0805	805
R25	1	49.9k	CRCW060349K9FKFA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, 0603	603
R26	1	1.69k	CRCW06031K69FKFA	Vishay-Dale	RES, 1.69 k, 1%, 0.1 W, 0603	603
R27	1	47.5k	CRCW060347K5FKFA	Vishay-Dale	RES, 47.5 k, 1%, 0.1 W, 0603	603
R28	1	3.92k	CRCW06033K92FKFA	Vishay-Dale	RES, 3.92 k, 1%, 0.1 W, 0603	603
R30	1	DNP	DNP	Panasonic	RES, 2.20, 1%, 0.125 W, 0805	805
R31	1	1	ERJ-6RQF1R0V	Panasonic	RES, 1.00, 1%, 0.125 W, 0805	805
R33	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	603
R34	1	30.9k	CRCW060330K9FKFA	Vishay-Dale	RES, 30.9 k, 1%, 0.1 W, 0603	603
R36	1	100k	CRCW0805100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.125 W, 0805	805
R37	1	22.1k	CRCW060322K1FKFA	Vishay-Dale	RES, 22.1 k, 1%, 0.1 W, 0603	603
RF1, RF2, RF3	3	TBD	SPP1UL1R00JLF	TT Electronics/IRC	RES, 1.0, 5%, 1 W, TH, 2-Leads, Axial, Dia 3.8mm, Pin Spacing 15.2mm	TH, 2-Leads, Axial, Dia 3.8mm, Pin Spacing 15.2mm
RV1, RV2, RV3	3	TBD	B72210S2301K101	TDK	SIOV Metal Oxide Leaded Varistor, 300VAC, 3500A, TH	2-Pin THD, Body 12 x 5.6 mm, Height 14.5 mm
T1	1		750319952r00	Würth	TRANSFORMER	PTH10_14MM6_22M M7
TP1, TP2, TP3, TP4, TP6, TP7	6		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP5, TP8	2		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U1	1		UCC28740DR	Texas Instruments	Constant-Voltage, Constant-Current Flyback Controller Using Opto-Coupler Feedback, D0007A	D0007A
U2	1		FOD817A	Fairchild Semiconductor	Optocoupler, 5 kV, 80-160% CTR, TH	DIP, 4-Leads, Body 6.86x4.83mm, Pitch 2.54mm
U3	1		ATL431LIBQDBZR	Texas Instruments	High Bandwidth Low-Iq Programmable Shunt Regulator, DBZ0003A (SOT-23-3)	DBZ0003A

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