

DNP = DO NOT POPULATE
 REFDES > 100 added on board



PMP30826 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C5	2	47uF	UCY2W470MHD6TN	Nichicon	47µF 450V Aluminum Electrolytic Capacitors Radial	RADIAL
C2	1		DNP	Vishay	0.022µF Film Capacitor 480V 1000V (1kV) Polypropylene (PP), Metallized Radial	RADIAL
C3, C4	2		F339X132248MFP2B0	Vishay	0.022µF Film Capacitor 480V 1000V (1kV) Polypropylene (PP), Metallized Radial	RADIAL
C6, C8	2	15F	SCCT30B156SRB	AVX	CAP, Electric Double Layer, 25000000 µF, 2.7 V,+30/--10%, 0.027 ohm, TH	Dia 16mm
C7	1	100uF	885012109004	Wuerth	CAP, CERM, 100 µF, 6.3 V,+/- 20%, X5R, 1210	1210
C9	1	DNP	DNP	TDK	CAP, CERM, 2.2 µF, 50 V,+/- 10%, X7R, 0805	0805
C10	1	470uF	EKZE500ELL471		470µF 50V Aluminum Electrolytic Capacitors Radial	RADIAL
C11	1	0.1uF	06035C104KAT2A	AVX	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603
C12	1	2.2uF	C2012X7R1H225K125AC	TDK	CAP, CERM, 2.2 µF, 50 V,+/- 10%, X7R, 0805	0805
C13	1	47pF	GRM1885C1H470JA01D	MuRata	CAP, CERM, 47 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
C14, C16	2	DNP	Used in BOM report	Used in BOM report	CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference]	Used in PnP output and some BOM reports
C15	1	6800pF	C0805C682K5RACTU	Kemet	CAP, CERM, 6800 pF, 50 V,+/- 10%, X7R, 0805	0805
C17	1	0.047uF	C1608X7R1H473K080AA	TDK	CAP, CERM, 0.047 µF, 50 V,+/- 10%, X7R, 0603	0603
C18	1	DNP	DNP	Used in BOM report	CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference]	Used in PnP output and some BOM reports
C19	1	2.2uF	GRM21BR71E225KA73L	MuRata	CAP, CERM, 2.2 µF, 25 V,+/- 10%, X7R, 0805	0805
C20, C21	2	4700pF	DE2E3KY472MB3BM02F	MuRata	CAP, CERM, 4700 pF, X1 250 VAC/Y2 300 VAC, +/- 20%, E, 10x5x13mm	10x5x13mm
C101	1	100uF	C1210C107M8PACTU	Würth Elektronik	CAP, CERM, 100 µF, 10 V,+/- 20%, X5R, 1210	1210
C102	1	4.7uF	GRM31CR71H475KA12L	MuRata	CAP, CERM, 4.7 µF, 50 V,+/- 10%, X7R, 1206	1206
D1	1	800V	MB8S-TP	Micro Commercial Component	Diode, Switching-Bridge, 800 V, 0.5 A, TO269AA	TO269AA
D2	1	120V	SMBJ120A-13-F	Diodes Inc.	Diode, TVS, Uni, 120 V, 193 Vc, SMB	SMB
D3	1		MBRD580TR	SMC Diode Solutions	Diode Schottky 80V 5A Surface Mount DPAK	DPAK
D4	1	800V	US1K-13-F	Diodes Inc.	Diode, Fast Rectifier, 800 V, 1 A, SMA	SMA
D5	1	200V	ES1D-13-F	Diodes Inc.	Diode, Ultrafast, 200 V, 1 A, SMA	SMA
D6	1	DNP	DNP	Micro Commercial Component	Diode, Zener, 27 V, 3 W, SMA	DNP
D7	1	30V	BAT54S-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOT-23	SOT-23
D101, D102	2	14V	MMSZ4701T1G	ON Semiconductor	Diode, Zener, 14 V, 500 mW, SOD-123	SOD-123
L1	1	SHORT	768772221	Würth Elektronik	Inductor, Unshielded Drum Core, Powdered Iron, 220 µH,	Dia 8x10mm
L2	1	DNP	1B12660	Würth Elektronik	Coupled inductor, 3300uH, 1.5 A	14.7x13mm
Q1	1		BSP300	Used in BOM report	MOSFET, N-CH, xxV, xxxA, [PackageReference]	Used in PnP output and some BOM reports
Q2	1	DNP		Used in BOM report	MOSFET, N-CH, xxV, xxxA, SOT-23	Used in PnP output and some BOM reports
Q3	1	50V	BSS138	Fairchild Semiconductor	MOSFET, N-CH, 50 V, 0.22 A, SOT-23	SOT-23
Q4	1	60 V	FMMT451	Diodes Inc.	Transistor, NPN, 60 V,	SOT-23
Q5	1	1500V	IXTA3N150HV		MOSFET, N-CH, 1500 V, DPAK	DPAK
R1	1	1.0Meg	CRCW08051M00JNEA	Vishay-Dale	RES, 1.0 M, 5%, 0.125 W, 0805	0805
R2, R5, R8	3	30k	CRCW080530K0JNEA	Vishay-Dale	RES, 30 k, 5%, 0.125 W, 0805	0805

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R3, R28, R31, R34	4	DNP	Used in BOM report	Used in BOM report	RES, xxx ohm, x%, xW, [PackageReference]	Used in PnP output and some BOM reports
R4	1	3.0Meg	CRCW08053M00JNEA	Vishay-Dale	RES, 3.0 M, 5%, 0.125 W, 0805	0805
R6	1			Vishay	Through Hole Resistor, 39 ohm, Axial Leaded, 5 W, 5%, AC Series	AXIAL
R7, R11	2	2.0Meg	CRCW08052M00JNEA	Vishay-Dale	RES, 2.0 M, 5%, 0.125 W, 0805	0805
R9, R10, R20, R21	4	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R12	1	200	CRCW2010200RFKEF	Vishay-Dale	RES, 200, 1%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
R13, R35	2	100k	CRCW0805100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.125 W, 0805	0805
R14	1		KNP100JR-73-22R	Yageo	22 Ohms ±5% 1W Through Hole Resistor Axial Flame Retardant Coating, Safety Wirewound	AXIAL
R15	1	100	CRCW2010100RJNEF	Vishay-Dale	RES, 100, 5%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
R16	1	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, 0805	0805
R17	1	10	CRCW120610R0JNEA	Vishay-Dale	RES, 10, 5%, 0.25 W, 1206	1206
R18	1	200k	CRCW0603200KFKEA	Vishay-Dale	RES, 200 k, 1%, 0.1 W, 0603	0603
R19	1	196k	CRCW0603196KFKEA	Vishay-Dale	RES, 196 k, 1%, 0.1 W, 0603	0603
R22	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
R23	1	10.0	RC0805FR-0710RL	Yageo America	RES, 10.0, 1%, 0.125 W, 0805	0805
R24	1	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, 0603	0603
R25	1	487	CRCW0603487RFKEA	Vishay-Dale	RES, 487, 1%, 0.1 W, 0603	0603
R26	1	20.5k	CRCW080520K5FKEA	Vishay-Dale	RES, 20.5 k, 1%, 0.125 W, 0805	0805
R27	1	4.99k	CRCW06034K99FKEA	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, 0603	0603
R29	1	DNP	DNP	Used in BOM report	RES, xxx ohm, x%, xW, [PackageReference]	Used in PnP output and some BOM reports
R30	1	0.82	ERJ-6RQFR82V	Panasonic	RES, 0.82, 1%, 0.125 W, 0805	0805
R32	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R33	1	22.6k	CRCW060322K6FKEA	Vishay-Dale	RES, 22.6 k, 1%, 0.1 W, 0603	0603
R36	1	22.1k	CRCW060322K1FKEA	Vishay-Dale	RES, 22.1 k, 1%, 0.1 W, 0603	0603
T1	1		750319019r00	Würth Electronics	TRANSFORMER	PTH_XFRMR_22MM0_24MM1
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
TP101, TP102, TP103, TP104	4	DNP	DNP	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
U1	1		LM2765M6X	Texas Instruments	Switched Capacitor Voltage Converter, 6-pin SOT-23, Pb-Free	DBV0006A
U2	1		UCC28740DR	Texas Instruments	Constant-Voltage, Constant-Current Flyback Controller Using Opto-Coupler Feedback, D0007A	D0007A
U3	1		FOD817A	Fairchild Semiconductor	Optocoupler, 5 kV, 80-160% CTR, TH	DIP, 4-Leads, Body 6.86x4.83mm, Pitch 2.54mm
U4	1		LMV431AIMFX/NOPB	Texas Instruments	Low-Voltage (1.24V) Adjustable Precision Shunt Regulators, 3-pin SOT-23, Pb-Free	DBZ0003A
V1	1		B72210S0551K101	TDK	910V 2.5kA Varistor 1 Circuit Through Hole Disc 10mm	RADIAL

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