

DNP = DO NOT POPULATE
TBD = TO BE DEFINED

PMP30825 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1		UPW1E220MDD	Nichicon	22uF 25 V dc Aluminium Electrolytic Capacitor, PW Series 2000h 5 (Dia.) x 11mm	RADIAL
C2	1	4.7uF	C3216X7R1H475K160AC	TDK	CAP, CERM, 4.7 uF, 50 V,+/- 10%, X7R, 1206	1206
C3	1	TBD	2220Y5000105KXTWS3	Knowles Syfer	CAP, CERM, 1uF,500V, [TempCo], xx%, [PackageReference]	2220
C4	1	TBD	EEU-ED2W150	Panasonic	CAP, AL, 15 uF, 450 V, +/- 20%, TH	D12.5xL25mm
C5	1		25ZLG47MEFC6.3X7	Rubycon	Cap Aluminum 47uF 25V 20% (6.3 X 7mm) Radial 2.5mm 480mA 1000 hr 105°C Bulk	RADIAL
C6, C7, C11	3		DNP	Used in BOM report	CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference]	Used in PnP output and some BOM reports
C8	1		25AX220MEFC8X9	Rubycon	220uF 25V Aluminum Electrolytic Capacitors Radial, Can 2000 Hrs @ 105°C	RADIAL
C9, C10	2	TBD	TBD	MuRata	CAP, CERM, 4700 pF, X1 250 VAC/Y2 300 VAC, +/- 20%, E, 10x5x13mm	10x5x13mm
C12	1	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 uF, 50 V,+/- 10%, X7R, 0603	0603
C13	1	10uF	GRM31CR71E106KA12L	MuRata	CAP, CERM, 10 uF, 25 V,+/- 10%, X7R, 1206	1206
C14	1	0.1uF	GRM188R71E104KA01D	MuRata	CAP, CERM, 0.1 uF, 25 V,+/- 10%, X7R, 0603	0603
C15	1	47pF	GRM1885C1H470JA01D	MuRata	CAP, CERM, 47 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
C16, C22, C25	3	DNP	DNP	Used in BOM report	CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference]	Used in PnP output and some BOM reports
C17	1	1uF	GRM21BR71H105KA12L	MuRata	CAP, CERM, 1 uF, 50 V,+/- 10%, X7R, 0805	0805
C18	1	0.1uF	C0805C104J5RACTU	Kemet	CAP, CERM, 0.1 uF, 50 V,+/- 5%, X7R, 0805	0805
C19	1	22uF	GRM31CR71A226KE15L	MuRata	CAP, CERM, 22 uF, 10 V,+/- 10%, X7R, 1206	1206
C20, C23	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
C21	1	0.033uF	08055C333JAT2A	AVX	CAP, CERM, 0.033 uF, 50 V,+/- 5%, X7R, 0805	0805
C24	1	0.01uF	C0603X103K5RACTU	Kemet	CAP, CERM, 0.01 uF, 50 V,+/- 10%, X7R, 0603	0603
D1, D4	2	100V	SS110-TP	Micro Commercial Component	Diode, Schottky, 100 V, 1 A, SMA	SMA
D2	1	24V	3SMAJ5934B-TP	Micro Commercial Component	Diode, Zener, 24 V, 3 W, SMA	SMA
D3	1	170V	SMBJ170A-13-F	Diodes Inc.	Diode, TVS, Uni, 170 V, 275 Vc, SMB	SMB
D5	1	600V	US1J-13-F	Diodes Inc.	Diode, Ultrafast, 600 V, 1 A, SMA	SMA
D6	1	18V	MMSZ5248B-7-F	Diodes Inc.	Diode, Zener, 18 V, 500 mW, SOD-123	SOD-123
D7	1	80V	B380-13-F	Diodes Inc.	Diode, Schottky, 80 V, 3 A, SMC	SMC
D8	1	150V	ES1C-13-F	Diodes Inc.	Diode, Superfast Rectifier, 150 V, 1 A, SMA	SMA
L1	1	33uH	LPS4018-333MLB	Coilcraft	Inductor, Shielded Drum Core, Ferrite, 33 uH, 0.68 A, 0.42 ohm, SMD	LPS4018
Q1	1	750V	IPD70R1K4CEAUMA1	Infineon Technologies	MOSFET, N-CH, 750 V, 5.4 A, DPAK	DPAK
Q2, Q3	2	40 V	MMBT3906	Fairchild Semiconductor	Transistor, PNP, 40 V, 0.2 A, SOT-23	SOT-23
R1, R7, R10, R17, R29	5	DNP	Used in BOM report	Used in BOM report	RES, xxx ohm, x%, xW, [PackageReference]	Used in PnP output and some BOM reports
R2, R3, R4	3	4.99Meg	CRCW08054M99FKEA	Vishay-Dale	RES, 4.99 M, 1%, 0.125 W, 0805	0805
R5	1	200	CRCW2512200RJNEG	Vishay-Dale	RES, 200, 5%, 1 W, AEC-Q200 Grade 0, 2512	2512
R6	1	30.1	CRCW080530R1FKEA	Vishay-Dale	RES, 30.1, 1%, 0.125 W, 0805	0805
R8, R9	2	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
R11, R12, R15, R16	4	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603

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R13	1	115k	CRCW0603115KFKEA	Vishay-Dale	RES, 115 k, 1%, 0.1 W, 0603	0603
R14	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R18	1	169k	CRCW0603169KFKEA	Vishay-Dale	RES, 169 k, 1%, 0.1 W, 0603	0603
R19	1	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, 0805	0805
R20	1	13.7k	CRCW060313K7FKEA	Vishay-Dale	RES, 13.7 k, 1%, 0.1 W, 0603	0603
R21	1	22.6k	CRCW060322K6FKEA	Vishay-Dale	RES, 22.6 k, 1%, 0.1 W, 0603	0603
R22	1	1.54k	CRCW06031K54FKEA	Vishay-Dale	RES, 1.54 k, 1%, 0.1 W, 0603	0603
R23	1	DNP	DNP	Used in BOM report	RES, xxx ohm, x%, xW, [PackageReference]	Used in PnP output and some BOM reports
R24, R30	2	3.01k	CRCW06033K01FKEA	Vishay-Dale	RES, 3.01 k, 1%, 0.1 W, 0603	0603
R25, R26	2	3.30	ERJ-6RQF3R3V	Panasonic	RES, 3.30, 1%, 0.125 W, 0805	0805
R27	1	32.4k	CRCW060332K4FKEA	Vishay-Dale	RES, 32.4 k, 1%, 0.1 W, 0603	0603
R28	1	44.2k	CRCW060344K2FKEA	Vishay-Dale	RES, 44.2 k, 1%, 0.1 W, 0603	0603
T1	1		750319024r00	Würth Electronics	TRANSFORMER	PTH_TRANSFORMER
TP1, TP2, TP4, TP7, TP9, TP10	6		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP3, TP5, TP6, TP8, TP12	5		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
TP11	1	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP13	1	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U1	1		TPS54202DDCR	Texas Instruments	4.5V to 28V Input, 2A Output, EMI Friendly Synchronous Step-Down Converter, DDC0006A (SOT-23-THIN-6)	DDC0006A
U2	1		UCC28742DBVR	Texas Instruments	High-Efficiency Low-Cost Flyback Controller with Secondary-Side Regulation, DBV0006A (SOT-23-6)	DBV0006A
U3	1		ATL431LIBQDBZR	Texas Instruments	High Bandwidth Low-Iq Programmable Shunt Regulator, DBZ0003A (SOT-23-3)	DBZ0003A

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