

TBD = TO BE DEFINED

DNP = DO NOT POPLATE

PMP30653 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	TBD	TBD	Used in BOM report	CAP, [Technology], xxxF, xxV, +/-xx%, xxOhm ESR, [MountType]	Used in PnP output and some BOM reports
C2, C3	2	22uF	GMK325BJ226MM-P	Taiyo Yuden	CAP, CERM, 22 μ F, 35 V,+/- 20%, X5R, 1210	1210
C4, C5, C6, C7, C9, C10, C11, C12	8	2.2uF	CKG57NX7R2E225M500JH	TDK	CAP, CERM, 2.2 μ F, 250 V,+/- 20%, X7R, AEC-Q200 Grade 1, 6x5x5mm	6x5x5mm
C8	1	47uF	EEU-EE2G470S	Panasonic	CAP, AL, 47 μ F, 400 V, +/- 20%, TH	18x20mm
C13	1	0.1uF	GCM188R71H104KA57D	MuRata	CAP, CERM, 0.1 μ F, 50 V,+/- 10%, X7R, 0603	0603
C14	1	2.2uF	GRM31MR71E225KA93L	MuRata	CAP, CERM, 2.2 μ F, 25 V,+/- 10%, X7R, 1206	1206
C15	1	SHORT	SHORT	Kemet	CAP, CERM, 0.01 μ F, 50 V,+/- 5%, X7R, 0603	0603
C16	1	0.47uF	C1608X7R1H474K080AC	TDK	CAP, CERM, 0.47 μ F, 50 V,+/- 10%, X7R, 0603	0603
C17	1	47pF	GRM1885C1H470JA01D	MuRata	CAP, CERM, 47 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
C18	1	470pF	GRM1885C1H471JA01D	MuRata	CAP, CERM, 470 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
C19	1	1uF	GRM21BR71C105KA01L	MuRata	CAP, CERM, 1 μ F, 16 V,+/- 10%, X7R, 0805	0805
C20	1	1000pF	GRM1885C2A102JA01D	MuRata	CAP, CERM, 1000 pF, 100 V,+/- 5%, C0G/NP0, 0603	0603
C21	1	4.7uF	GRM31CR71E475KA88L	MuRata	CAP, CERM, 4.7 μ F, 25 V,+/- 10%, X7R, 1206	1206
C22	1	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V,+/- 5%, C0G/NP0, 0603	0603
D1	1	DNP	DNP	ON Semiconductor	Diode, Ultrafast, 400 V, 3 A, SMC	SMC
D2	1	600V	STPSC1006D	Microsemi	Diode, Schottky, 600 V,	TO-220-2
D3	1	18V	SMAZ18-13-F	Diodes Inc.	Diode, Zener, 18 V, 1 W, AEC-Q101, SMA	SMA
D4	1	220V	SMAJ220A	Littelfuse	Diode, TVS, Uni, 220 V, 356 Vc, 400 W, 1.1 A, SMA	SMA
D5	1	30V	BAT54-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOT-23	SOT-23
D6	1	20V	MBR0520LT1G	ON Semiconductor	Diode, Schottky, 20 V, 0.5 A, SOD-123	SOD-123
F1	1		0443005.DR	Littelfuse	Fuse, 5 A, 250VAC/VDC, SMD	FUSE 10.1x3.12x3.13mm
H1	1	DNP	DNP	Aavid	Heatsink, TO-220, TH	TO-220 Heat Sink
H2	1		529702B02500G	Aavid	BOARD LEVEL HEATSINK 1" TO-220	BOARD LEVEL HEATSINK 1 inch TO-220
L1	1	300uH	750318149	Würth Elektronik	Inductor, 300 μ H, 0.065 ohm, TH	40.64x36.2mm
Q1	1	40 V	MMBT3904T-7-F	Diodes Inc.	Transistor, NPN, 40 V, 0.2 A, SOT-523	SOT-523
Q2, Q5	2	40 V	MMBT3904-7-F	Diodes Inc.	Transistor, NPN, 40 V, 0.2 A, SOT-23	SOT-23
Q3	1	600V	IPP60R125CFD7	Infineon Technologies	MOSFET, N-CH, 600 V, 25 A, TO-220AB	TO-220AB
Q4	1	60 V	MMBT2907AT-7-F	Diodes Inc.	Transistor, PNP, 60 V, 0.6 A, AEC-Q101, SOT-523	SOT-523
R1, R14	2	49.9k	CRCW080549K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.125 W, 0805	0805
R2, R4	2	301k	CRCW1206301KFKEA	Vishay-Dale	RES, 301 k, 1%, 0.25 W, 1206	1206
R3	1	10.0	CRCW080510R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.125 W, 0805	0805
R5	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R6	1	10	CRCW080510R0JNEA	Vishay-Dale	RES, 10, 5%, 0.125 W, 0805	0805
R7	1	30.1k	CRCW060330K1FKEA	Vishay-Dale	RES, 30.1 k, 1%, 0.1 W, 0603	0603
R8	1	DNP	CRCW080510K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.125 W, 0805	0805
R9	1	6.98k	CRCW06036K98FKEA	Vishay-Dale	RES, 6.98 k, 1%, 0.1 W, 0603	0603
R10, R15	2	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R11, R12	2	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, 0805	0805
R13	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R16	1	DNP	DNP	Vishay-Dale	RES, 2.21 k, 1%, 0.1 W, 0603	0603

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R17	1	249k	CRCW0603249KFKEA	Vishay-Dale	RES, 249 k, 1%, 0.1 W, 0603	0603
R18, R19	2	12.7	CRCW201012R7FKEF	Vishay-Dale	RES, 12.7, 1%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
R20	1	2.21k	CRCW06032K21FKEA	Vishay-Dale	RES, 2.21 k, 1%, 0.1 W, 0603	0603
R21	1	DNP	DNP	Vishay-Dale	RES, 37.4 k, 1%, 0.1 W, 0603	0603
R22	1	4.99	CRCW12064R99FKEA	Vishay-Dale	RES, 4.99, 1%, 0.25 W, 1206	1206
R23, R24, R25	3	DNP	DNP	Panasonic Electronic Compon	RES, 0.18 ohm, 1%, 500mW, current sense [PackageReference]	1210
RT1	1	0	SHORT	TDK	Thermistor NTC, 4.70 ohm, 20%, 8.5mm Disc	
TP1, TP2, TP3, TP4	4		1503-2	Keystone	Terminal, Turret, TH, Double	Keystone1503-2
TP5, TP7	2		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP6	1		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U1	1		UCC28C42DR	Texas Instruments	BiCMOS Low Current 8 Pin PWM Current Mode Controller, D0008A (SOIC-8)	D0008A
U2	1	500uH	749251050	Würth Elektronik	Transformer, 500 uH, SMD	5.6x5.6mm

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