

DNP = DO NOT POPULATE!



PMP30495 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C7, C13	3	0.1uF	B32921C3104M	EPCOS Inc	CAP, Film, 0.1uF, 305V, +/-20%, TH	13x6x12mm
C2, C9	2	47uF	UVK2V470MHD	Nichicon	CAP, AL, 47 μF, 350 V, +/- 20%, TH	D16xL25mm
C3, C4, C10, C11	4	68uF	UWG1E680MNL1GS	Nichicon	CAP, AL, 68 μF, 25 V, +/- 20%, SMD	D8xL10mm
C5, C12, C15, C25, C26, C27	6	DNP	Used in BOM report	Used in BOM report	CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference]	Used in PnP output and some BOM reports
C6	1	0.01uF	B32652A0103K	EPCOS Inc	CAP, Film, 0.01uF, 1000V, +/-10%, TH	2-Pin THD, 5 x 10.5 x 18 mm
C8	1	1000pF	GRM31BR73A102KW01L	MuRata	CAP, CERM, 1000 pF, 1000 V,+/- 10%, X7R, 1206	1206
C14	1	10uF	UUD1H100MCL1GS	Nichicon	CAP, AL, 10 uF, 50 V, +/- 20%, 0.88 ohm, SMD	6.3x5.8
C16, C18, C19	3	1000pF	VY2102M29Y5UG63V7	Vishay-Bccomponents	CAP, CERM, 1000pF, 300V, +/-20%, Y5U, Radial Disc 7.5mm, ls=7.5	Radial Disc 7.5mm, ls=7.5
C17	1	10uF	UPW1V100MDD6	Nichicon	CAP, AL, 10 μF, 35 V, +/- 20%, 0.95 ohm, TH	5x7mm
C20	1	1uF	08055C105KAT2A	AVX	CAP, CERM, 1 μF, 50 V,+/- 10%, X7R, 0805	0805
C21	1	0.01uF	C0603C103J5RACTU	Kemet	CAP, CERM, 0.01 μF, 50 V,+/- 5%, X7R, 0603	0603
C22	1	0.22uF	C0603C224J3RAC7867	Kemet	CAP, CERM, 0.22 μF, 25 V,+/- 5%, X7R, 0603	0603
C23	1	1uF	08055C105KAT2A	AVX	CAP, CERM, 1 μF, 50 V, +/- 10%, X7R, 0805	0805
C24	1	220pF	C0603C221K5RACTU	Kemet	CAP, CERM, 220 pF, 50 V,+/- 10%, X7R, 0603	0603
D1, D3	2		30BQ150	Used in BOM report	Diode, Schottky, 150V, xxA, [PackageReference]	Used in PnP output and some BOM reports
D2, D4	2	800V	MB8S-TP	Micro Commercial Component	Diode, Switching-Bridge, 800V, 0.5A, 4-Pin TO269AA, Body 4.95 x 4.2 mm, Pitch 2.555 mm	4-Pin TO269AA, Body 4.95 x 4.2 mm, Pitch 2.555 mm
D5	1	800V	US1K-13-F	Diodes Inc.	Diode, Fast Rectifier, 800 V, 1 A, SMA	SMA
D6	1	15V	MMSZ5245B-7-F	Diodes Inc.	Diode, Zener, 15 V, 500 mW, SOD-123	SOD-123
D7	1	400V	MURA140T3G	ON Semiconductor	Diode, Ultrafast, 400 V, 1 A, SMA	SMA
D8	1	150V	ES1C-13-F	Diodes Inc.	Diode, Superfast Rectifier, 150 V, 1 A, SMA	SMA
D9	1	39V	3SMAJ5939B-TP	Micro Commercial Component	Diode, Zener, 39 V, 3 W, SMA	SMA
D10	1	DNP	Used in BOM report	Used in BOM report	Diode, Zener, xxV, xxxmW, [PackageReference]	Used in PnP output and some BOM reports
L1, L2, L3, L4, L5, L6	6	470uH	744772471	Würth Elektronik	Inductor, Wirewound, Ferrite, 470 μH	D7.8xL9.5mm
Q1	1	900V	IPD90R1K2C3ATMA1	Infineon Technologies	MOSFET, N-CH, 900 V, 5.1 A, DPAK	DPAK
R1, R2, R7, R8, R12, R15	6	10k	CRCW120610K0JNEA	Vishay-Dale	RES, 10k ohm, 5%, 0.25W, 1206	1206
R3, R5, R9, R11	4	976k	CRCW1206976KFKEA	Vishay-Dale	RES, 976 k, 1%, 0.25 W, 1206	1206
R4	1	100	CRCW2010100RFKEF	Vishay-Dale	RES, 100, 1%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
R6	1	47k	CRCW251247K0JNEG	Vishay-Dale	RES, 47 k, 5%, 1 W, AEC-Q200 Grade 0, 2512	2512
R10, R14, R18, R22, R25, R26, R28	7	DNP	Used in BOM report	Used in BOM report	RES, xxx ohm, x%, xW, [PackageReference]	Used in PnP output and some BOM reports
R13	1	10.0	CRCW080510R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.125 W, 0805	0805
R16	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, 0603	0603
R17	1	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, 0805	0805

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R19	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R20	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R21	1	4.99k	CRCW06034K99FKEA	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, 0603	0603
R23	1	66.5k	CRCW060366K5FKEA	Vishay-Dale	RES, 66.5 k, 1%, 0.1 W, 0603	0603
R24	1	0.75	ERJ-8RQFR75	Panasonic	RES, 0.75, 1%, 0.25 W, 1206	1206
R27	1	26.1k	CRCW060326K1FKEA	Vishay-Dale	RES, 26.1 k, 1%, 0.1 W, 0603	0603
RF1, RF2, RF3	3	1.0	SPP1UL1R00JLF	TT Electronics/IRC	RES, 1.0, 5%, 1 W, TH	TH, 2-Leads, Axial, Dia 3.8mm, Pin Spaing 15.2mm
RV1, RV2, RV3	3	300VAC	B72210S2301K101	EPCOS Inc	SIOV Metal Oxide Leaded Varistor, 300VAC, 3500A, TH	2-Pin THD, Body 12 x 5.6 mm, Height 14.5 mm
T1	1	1.5mH	750317812	Würth Elektronik	Transformer, 1500 uH, TH	44.5x41.5mm
TP1, TP2, TP4, TP5, TP6, TP8, TP9	7		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP3, TP7, TP10	3		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
TP11	1	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP12	1	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U1	1		LM5021MM-1/NOPB	Texas Instruments	AC-DC Current Mode PWM Controller, 8-pin MSOP, Pb-Free	MUA08A
U2	1		FOD817A	Fairchild Semiconductor	Optocoupler, 5 kV, 80-160% CTR, TH	DIP, 4-Leads, Body 6.86x4.83mm, Pitch 2.54mm
U3	1		ATL431AIDBZR	Texas Instruments	2.5V Low Iq Adjustable Precision Shunt Regulator, DBZ0003A (SOT-23-3)	DBZ0003A

IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATASHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES "AS IS" AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, or other requirements. These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI's products are provided subject to TI's Terms of Sale (www.ti.com/legal/termsofsale.html) or other applicable terms available either on ti.com or provided in conjunction with such TI products. TI's provision of these resources does not expand or otherwise alter TI's applicable warranties or warranty disclaimers for TI products.

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
Copyright © 2018, Texas Instruments Incorporated