

PMP21516 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C7	2	1000pF	GRM188R72D102KW07D	MuRata	CAP, CERM, 1000 pF, 200 V, +/- 10%, X7R, 0603	0603
C2, C3	2	680uF	EKZE350ELL681MK20S	Chemi-Con	CAP, AL, 680 µF, 35 V, +/- 20%, TH	D12.5xL20mm
C4	1	22uF	C3216X5R1V226M160AC	TDK	CAP, CERM, 22 µF, 35 V, +/- 20%, X5R, 1206	1206
C5	1	1uF	C0805C105K5RACTU	Kemet	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0805	0805
C6	1	0.01uF	QMK212B7103KG-T	Taiyo Yuden	CAP, CERM, 0.01 µF, 250 V, +/- 10%, X7R, 0805	0805
C8, C9	2	47uF	EEU-EE2G470S	Panasonic	CAP, AL, 47 µF, 400 V, +/- 20%, TH	18x20mm
C11	1	0.47uF	B32922C3474K	TDK	CAP, Film, 0.47 uF, 630 V, +/- 10%, TH	B32922 17.5mm
C12	1	2200pF	DE1E3KX222MA5BA01	MuRata	CAP, CERM, 2200 pF, 250 V, +/- 20%, E, Disc 10x8mm	Disc 10x8mm
C13	1	120uF	EKZE160ELL121MF11D	Chemi-Con	CAP, AL, 120 uF, 16 V, +/- 20%, TH	D6.3xL11mm
C14	1	100uF	EKZE100ELL101ME11D	Chemi-Con	CAP, AL, 100 uF, 10 V, +/- 20%, TH	D5xL11mm
C15	1	1uF	B37941K9105K62	TDK	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 0805	0805
C16	1	1uF	C0805C105K8RACTU	Kemet	CAP, CERM, 1 uF, 10 V, +/- 10%, X7R, 0805	0805
C17	1	47uF	35ZLJ47MTA5X11	Rubycon	CAP, AL, 47 µF, 35 V, +/- 20%, 0.4 ohm, TH	D5xL11mm
C18	1	0.47uF	UMK107B7474KA-TR	Taiyo Yuden	CAP, CERM, 0.47 µF, 50 V, +/- 10%, X7R, 0603	0603
C19	1	100pF	885012006057	Würth Elektronik	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C20	1	0.1uF	0603YC104JAT2A	AVX	CAP, CERM, 0.1 µF, 16 V, +/- 5%, X7R, 0603	0603
C21	1	0.47uF	0805YC474JAT2A	AVX	CAP, CERM, 0.47 µF, 16 V, +/- 5%, X7R, 0805	0805
C22	1	0.01uF	GRM188R72A103KA01D	MuRata	CAP, CERM, 0.01 uF, 100 V, +/- 10%, X7R, 0603	0603
D1	1	150V	TSF40H150C C0G	Taiwan Semiconductor	Diode, Schottky, 150 V, 40 A, TH	TO-220-3 Full Pack
D2	1	600V	Z4DGP406L-HF	Comchip Technology	Diode, P-N-Bridge, 600 V, 4 A, Z4-D	Z4-D
D3	1	150V	SMCJ150A-TP	Microm Commercial Component	Diode, TVS, Uni, 150 V, 1500 W, SMC	SMC
D4	1	1000V	MRA4007T3G	ON Semiconductor	Diode, Standard Recovery Rectifier, 1000 V, 1 A, AEC-Q101, SMA	SMA
D5	1	100V	B1100B-13-F	Diodes Inc.	Diode, Schottky, 100 V, 1 A, SMB	SMB
D6	1	1.4V	BAS316,115	NXP Semiconductor	Diode, Ultrafast, 100V, 0.25A, SOD-323	SOD-323
H1	1		634-10ABPE	Wakefield-Vette		16.26x25.4x16.26 mm
J1, J3	2		ED555/2DS	On-Shore Technology	Terminal Block, 3.5mm Pitch, 2x1, TH	7.0x8.2x6.5mm
J2	1		770W-X2/10	Qualtek Electronics Corporation	AC Receptacle, 2.5A, R/A, TH	AC, Reception 14.5x15x22 mm
L1	1	68uH	7447709680	Würth Elektronik	Inductor, Shielded Drum Core, Ferrite, 68 uH, 3.2 A, 0.06864 ohm, SMD	SMD
L2	1		7448030417	Würth Elektronik	17mH @ 10kHz 2 Line Common Mode Choke Through Hole 4A DCR 50 mOhm	PTH_IND_22MM0_13 MM5
Q1	1	700V	IPD70R360P7SAUMA1	Infineon Technologies	MOSFET, N-CH, 700 V, 12.5 A, DPAK	DPAK
R1	1	14.7	CRCW251214R7FKEG	Vishay-Dale	RES, 14.7, 1%, 1 W, AEC-Q200 Grade 0, 2512	2512
R2, R4	2	0	STD	STD	RES, 1%, 0.063W, 0402	0402
R3	1	255k	RC1206FR-07255KL	Yageo America	RES, 255 k, 1%, 0.25 W, 1206	1206
R5	1	1.50k	CRCW06031K50FKEA	Vishay-Dale	RES, 1.50 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R6	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R7	1	60.4k	CRCW060360K4FKEA	Vishay-Dale	RES, 60.4 k, 1%, 0.1 W, 0603	0603
R8	1	0.075	ERJ-8BWFR075V	Panasonic	RES, 0.075, 1%, 0.5 W, 1206	1206
R9	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
R10	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R11	1	22.6k	CRCW080522K6FKEA	Vishay-Dale	RES, 22.6 k, 1%, 0.125 W, 0805	0805
R14	1	2.61k	RC0603FR-072K61L	Yageo	RES, 2.61 k, 1%, 0.1 W, 0603	0603
T1	1	170uH	RLTI-1275	Renco Electronics	Transformer, 170uH, TH	990x925mil

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
TP1, TP2, TP4, TP6, TP7, TP8	6	Red	5000	Keystone	Test Point, TH, Miniature, Red	Keystone5000
TP3, TP10	2		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
TP5	1		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP9	1	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
U1	1		TLV1117-33IDCY	Texas Instruments	Single-Output LDO, 800mA, Fixed (3.3), Internal Current Limit, Thermal Overload Protection, DCY0004A (SOT-223-4)	DCY0004A
U2	1		LM5021MM-1	Texas Instruments	AC-DC Current Mode PWM Controller, 8-pin MSOP	MUA08A
U3	1		FOD817A	Fairchild Semiconductor	High Operating Temperature Phototransistor Optocoupler, DIP-4	DIP, 4-Leads, Body 6.86x4.83mm, Pitch 2.54mm
U4	1		TL431AIDBZT	Texas Instruments	Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, -40 to 85 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
XF1	1	TR5	56000001009	Littelfuse	Fuse Holder, TR5, TH	TR5 Fuse Holder
C23	0	330pF	06031C331JAT2A	AVX	CAP, CERM, 330 pF, 100 V, +/- 5%, X7R, 0603	0603
C24	0	0.22uF	C1608X7R1E224K080AC	TDK	CAP, CERM, 0.22 µF, 25 V, +/- 10%, X7R, 0603	0603
C25	0	2.2uF		MuRata	CAP, CERM, 2.2µF, 50 V, +/- 10%, X7R, 0805	0805
D7, D8	0	1.4V	BAS316,115	NXP Semiconductor	Diode, Ultrafast, 100V, 0.25A, SOD-323	SOD-323
R12	0	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
R13	0	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R15	0	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603

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 © 2019, Texas Instruments Incorporated