

**PMP20315 REV A Bill of Materials**

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
PCB1	1		PMP20315	Any	Printed Circuit Board	
C1, C2	2	120uF	20SEPF120M+TSS	Panasonic	CAP POLYMER 120UF 20% 20V T/H	6.3x5.5mm
C3	1	2.2uF	GRM316R61E225KA12D	MuRata	CAP, CERM, 2.2 µF, 25 V, +/- 10%, X5R, 1206	1206
C4, C9	2	6.8uF	1189-2225-ND	Rubycon	CAP ALUM 6.8UF 20% 250V RADIAL	8x11
C5	1	470uF	RS80J471MDNASQJT	Nichicon	CAP ALUM POLY 470UF 20% 6.3V T/H	5x7 mm
C6	1	4.7uF	CGB3B1X5R1A475K055AC	TDK	CAP, CERM, 4.7 µF, 10 V, +/- 10%, X5R, 0603	0603
C7	1	22uF	CL10A226MP8NUNE	Samsung	CAP, CERM, 22 µF, 10 V, +/- 20%, X5R, 0603	0603
C8	1	2200pF	DE1E3KX222MA5BA01	MuRata	CAP, CERM, 2200 pF, 250 V, +/- 20%, E, Disc 10x8mm	Disc 10x8mm
C10	1	4.7uF	GRM319R61H475KA12	MuRata	CAP, CERM, 4.7 µF, 50 V, +/- 10%, X5R, 1206	1206
C11	1	22uF	GRT31CR61E226KE01L	MuRata	CAP, CERM, 22 µF, 25 V, +/- 10%, X5R, AEC-Q200 Grade 3, 1206	1206
D1	1	200V	SS1200-LTP	Micro Commercial Component	DIODE SCHOTTKY 200V 1A SMA	SMA
D3, D7	2	600V	1N4006-T	Diodes Inc.	Diode, Standard Recovery Rectifier, 600 V, 1 A, TH	DO-41
D4	1	200V	1SMB5956BT3G	ON Semiconductor	Diode, Zener, 200 V, 550 mW, SMB	SMB
D5	1	100V	SS1H10-E3/61T	Vishay-Semiconductor	Diode, Schottky, 100V, 1A, SMA	SMA
D6	1	1.7V	US1M-13-F	Diodes Inc.	Diode, Ultrafast, 1000V, 1A, SMA	SMA
D8	1		BAS20HT1G		DIODE SWITCH 200V 200MA SOD323	SOD-323
F1	1		37202500001	Littelfuse	Fuse, 0.25 A, 250 V, TH	TR5 fuse 8.5mm DIA
J1	1		923345-03-C	3M	Jumper Wire, 300mil spacing, Orange, pkg of 200	300 mil Jumper Wire
J2, J3	2		923345-04-C	3M	Jumper Wire, 400 mil Spacing, Yellow, Pkg of 200	Jumper Wire, 400 mil Spacing, Yellow, Pkg of 200
L1	1	10mH	744862100	Würth Elektronik	COMMON MODE CHOKE 450MA 2 LN T/H	17x12.32x15.32 mm
Q1	1	400 V	STN2580	STMicroelectronics	Transistor, NPN, 400 V, 1 A, SOT-223	SOT-223
R1	1	2.0k	CRCW08052K00JNEA	Vishay-Dale	RES, 2.0k ohm, 5%, 0.125W, 0805	0805
R2, R3, R5, R7	4	4.7Meg	CRCW12064M70JNEA	Vishay-Dale	RES, 4.7Meg ohm, 5%, 0.25W, 1206	1206
R4	1	511	CRCW0603511RFKEA	Vishay-Dale	RES, 511, 1%, 0.1 W, 0603	0603
R6	1	330	CRCW1206330RJNEA	Vishay-Dale	RES, 330, 5%, 0.25 W, 1206	1206
R8, R10, R12	3	1.5Meg	CRCW12061M50JNEA	Vishay-Dale	RES, 1.5 M, 5%, 0.25 W, 1206	1206
R9	1	0	RC1206JR-070RL	Yageo America	RES, 0, 5%, 0.25 W, 1206	1206
R11	1	143k	CRCW0603143KFKEA	Vishay-Dale	RES, 143 k, 1%, 0.1 W, 0603	0603
R13	1	953	CRCW0603953RFKEA	Vishay-Dale	RES, 953, 1%, 0.1 W, 0603	0603
R14	1	35.7k	RC0603FR-0735K7L	Yageo America	RES, 35.7 k, 1%, 0.1 W, 0603	0603
R15	1	2.4	CRCW08052R40JNEA	Vishay-Dale	RES, 2.4, 5%, 0.125 W, 0805	0805
T1	1		TBD	TBD	Flyback Transformer, TBD	
TP1, TP3	2	Red	5000	Keystone	Test Point, TH, Miniature, Red	Keystone5000
TP2, TP5	2	Black	5001	Keystone	Test Point, TH, Miniature, Black	Keystone5001
TP4	1		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP6	1		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U1	1		UCC28722DBVR	Texas Instruments	Constant-Voltage, Constant-Current Controller With Primary-Side Regulation, BJT Drive, DBV0006A	DBV0006A
D2	0	7.5V	1SMA5922BT3G	ON Semiconductor	Diode, Zener, 7.5 V, 1.5 W, AEC-Q101, SMA	SMA

## IMPORTANT NOTICE FOR TI DESIGN INFORMATION AND RESOURCES

Texas Instruments Incorporated ("TI") technical, application or other design advice, services or information, including, but not limited to, reference designs and materials relating to evaluation modules, (collectively, "TI Resources") are intended to assist designers who are developing applications that incorporate TI products; by downloading, accessing or using any particular TI Resource in any way, you (individually or, if you are acting on behalf of a company, your company) agree to use it solely for this purpose and subject to the terms of this Notice.

TI's provision of TI Resources does not expand or otherwise alter TI's applicable published warranties or warranty disclaimers for TI products, and no additional obligations or liabilities arise from TI providing such TI Resources. TI reserves the right to make corrections, enhancements, improvements and other changes to its TI Resources.

You understand and agree that you remain responsible for using your independent analysis, evaluation and judgment in designing your applications and that you have full and exclusive responsibility to assure the safety of your applications and compliance of your applications (and of all TI products used in or for your applications) with all applicable regulations, laws and other applicable requirements. You represent that, with respect to your applications, you have all the necessary expertise to create and implement safeguards that (1) anticipate dangerous consequences of failures, (2) monitor failures and their consequences, and (3) lessen the likelihood of failures that might cause harm and take appropriate actions. You agree that prior to using or distributing any applications that include TI products, you will thoroughly test such applications and the functionality of such TI products as used in such applications. TI has not conducted any testing other than that specifically described in the published documentation for a particular TI Resource.

You are authorized to use, copy and modify any individual TI Resource only in connection with the development of applications that include the TI product(s) identified in such TI Resource. NO OTHER LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE TO ANY OTHER TI INTELLECTUAL PROPERTY RIGHT, AND NO LICENSE TO ANY TECHNOLOGY OR INTELLECTUAL PROPERTY RIGHT OF TI OR ANY THIRD PARTY IS GRANTED HEREIN, including but not limited to any patent right, copyright, mask work right, or other intellectual property right relating to any combination, machine, or process in which TI products or services are used. Information regarding or referencing third-party products or services does not constitute a license to use such products or services, or a warranty or endorsement thereof. Use of TI Resources may require a license from a third party under the patents or other intellectual property of the third party, or a license from TI under the patents or other intellectual property of TI.

TI RESOURCES ARE PROVIDED "AS IS" AND WITH ALL FAULTS. TI DISCLAIMS ALL OTHER WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, REGARDING TI RESOURCES OR USE THEREOF, INCLUDING BUT NOT LIMITED TO ACCURACY OR COMPLETENESS, TITLE, ANY EPIDEMIC FAILURE WARRANTY AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT OF ANY THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

TI SHALL NOT BE LIABLE FOR AND SHALL NOT DEFEND OR INDEMNIFY YOU AGAINST ANY CLAIM, INCLUDING BUT NOT LIMITED TO ANY INFRINGEMENT CLAIM THAT RELATES TO OR IS BASED ON ANY COMBINATION OF PRODUCTS EVEN IF DESCRIBED IN TI RESOURCES OR OTHERWISE. IN NO EVENT SHALL TI BE LIABLE FOR ANY ACTUAL, DIRECT, SPECIAL, COLLATERAL, INDIRECT, PUNITIVE, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES IN CONNECTION WITH OR ARISING OUT OF TI RESOURCES OR USE THEREOF, AND REGARDLESS OF WHETHER TI HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

You agree to fully indemnify TI and its representatives against any damages, costs, losses, and/or liabilities arising out of your non-compliance with the terms and provisions of this Notice.

This Notice applies to TI Resources. Additional terms apply to the use and purchase of certain types of materials, TI products and services. These include; without limitation, TI's standard terms for semiconductor products (<http://www.ti.com/sc/docs/stdterms.htm>), [evaluation modules](#), and [samples](http://www.ti.com/sc/docs/sampterm.htm) (<http://www.ti.com/sc/docs/sampterm.htm>).

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265  
Copyright © 2017, Texas Instruments Incorporated