

PMP30285_RevB BOM

Quantity	Designator	Value	PartNumber	Description	PackageReference	Manufacturer
1	C1	470uF	PCF1A471MCL1GS	CAP, Aluminum Polymer, 470 µF, 10 V,+/- 20%, 0.016 ohm, D10xL10mm	D10xL10mm	Nichicon
1	C2	2.2uF	GRM31MR71E225KA93L	CAP, CERM, 2.2 µF, 25 V,+/- 10%, X7R, 1206	1206	MuRata
2	C3, C6	22uF	EEU-EB2G220	CAP, AL, 22 µF, 400 V, +/- 20%, TH	D12.5xL25mm	Panasonic
1	C4	0.1uF	R474I310050A1K	CAP, Film, 0.1 µF, X1 440 VAC, +/- 10%, AEC-Q200 Grade 1, TH	18x11mm	Kemet
1	C5	DNP	R474I310050A1K	CAP, Film, 0.1 µF, X1 440 VAC, +/- 10%, AEC-Q200 Grade 1, TH	18x11mm	Kemet
1	C7	100uF	EEE-1CA101AP	CAP, AL, 100 µF, 16 V, +/- 20%, AEC-Q200 Grade 3, SMD	D8xL6.2mm	Panasonic
1	C8	10uF	1206YC106KAT2A	CAP, CERM, 10 µF, 16 V,+/- 10%, X7R, 1206	1206	AVX
1	C9	1.5uF	C3216X7R1H155K160AB	CAP, CERM, 1.5 µF, 50 V,+/- 10%, X7R, 1206	1206	TDK
1	C10	0.1uF	06035C104KAT2A	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603	AVX
1	C11	22pF	C0603C220J5GACTU	CAP, CERM, 22 pF, 50 V,+/- 5%, COG/NP0, 0603	0603	Kemet
5	C12, C14, R17, R18, R22	DNP	Used in BOM report	CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference], CAP, CERM,	Used in PnP output and	Used in BOM report
2	C13, C15	0.047uF	GRM188R71H473KA61D	CAP, CERM, 0.047 µF, 50 V,+/- 10%, X7R, 0603	0603	MuRata
2	C16, C17	6800pF	C967U682MZVDBA7317	CAP, CERM, 6800 pF, 440 VAC,	10x5x13mm	MuRata
1	D1	100V	STPS8H100G-TR	Diode, Schottky, 100 V, 8 A, DDPAK	DDPAK	STMicroelectronics
1	D2	800V	MB8S-TP	Diode, Switching-Bridge, 800 V, 0.5 A, TO269AA	TO269AA	Micro Commercial Compone
1	D3	120V	SMCJ120A-TP	Diode, TVS, Uni, 120 V, 193 Vc, SMC	SMC	Micro Commercial Compone
1	D4	800V	US1K-13-F	Diode, Fast Rectifier, 800 V, 1 A, SMA	SMA	Diodes Inc.
1	D5	100V	B1100-13-F	Diode, Schottky, 100 V, 1 A, SMA	SMA	Diodes Inc.
1	D6	12V	MMBZ5242BLT1G	Diode, Zener, 12 V, 225 mW, SOT-23	SOT-23	ON Semiconductor
1	D7	200V	ES1D-13-F	Diode, Ultrafast, 200 V, 1 A, SMA	SMA	Diodes Inc.
1	F1		37205000001	Fuse, 0.5 A, 250VAC/VDC, TH	TR5 fuse 8.5mm DIA	Littelfuse
2	L1, L3	680uH	768772681	680uH	Dia 8x10mm	Wurth Elektronik
1	L2	10mH	744822110	Coupled inductor, 10 mH, 1 A, 0.36 ohm, TH	14.7x13mm	Wurth Elektronik
1	Q1	900V	IPD90R1K2C3ATMA1	MOSFET, N-CH, 900 V, 5.1 A, DPAK	DPAK	Infineon Technologies
4	R1, R4, R5, R7	1.00Meg	CRCW08051M00FKEA	RES, 1.00 M, 1%, 0.125 W, 0805	0805	Vishay-Dale
2	R2, R6	10k	CRCW120610K0JNEA	RES, 10 k, 5%, 0.25 W, 1206	1206	Vishay-Dale
2	R3, R101	0	CRCW12060000Z0EA	RES, 0, 5%, 0.25 W, 1206	1206	Vishay-Dale
1	R8	0	CRCW25120000Z0EG	RES, 0, 5%, 1 W, AEC-Q200 Grade 0, 2512	2512	Vishay-Dale
1	R9	33	CRCW080533R0JNEA	RES, 33, 5%, 0.125 W, 0805	0805	Vishay-Dale

1	R10	49.9	CRCW060349R9FKEA	RES, 49.9, 1%, 0.1 W, 0603	0603	Vishay-Dale
1	R11	133k	CRCW0603133KFKEA	RES, 133 k, 1%, 0.1 W, 0603	0603	Vishay-Dale
1	R12	5	CRCW08050000Z0EA	RES, 5, 5%, 0.125 W, 0805	0805	Vishay-Dale
1	R13	2.00k	CRCW06032K00FKEA	RES, 2.00 k, 1%, 0.1 W, 0603	0603	Vishay-Dale
3	R14, R20, R23	10.0k	CRCW060310K0FKEA	RES, 10.0 k, 1%, 0.1 W, 0603	0603	Vishay-Dale
1	R15	953	CRCW0603953RFKEA	RES, 953, 1%, 0.1 W, 0603	0603	Vishay-Dale
1	R16	7.50k	CRCW06037K50FKEA	RES, 7.50 k, 1%, 0.1 W, 0603	0603	Vishay-Dale
1	R19	0.82	ERJ-6BQF	RES, 0.82 1%, 0.333 W, AEC-Q200 Grade 1, 0805	0805	Panasonic
1	R21	49.9k	CRCW060349K9FKEA	RES, 49.9 k, 1%, 0.1 W, 0603	0603	Vishay-Dale
1	R24	DNP	CRCW12060000Z0EA	DNP	1206	Vishay-Dale
1	R102	4.99k	CRCW06034K99FKEA	RES, 4.99 k, 1%, 0.1 W, 0603	0603	Vishay-Dale
1	T1	1.1mH	750317049	Transformer, 1100 uH, TH	25x22.2mm	Würth Elektronik
2	TP1, TP3	Double	1503-2	Terminal, Turret, TH, Double	Keystone1503-2	Keystone
5	TP2, TP4, TP5, TP7, TP8		5000	Test Point, Miniature, Red, TH	Red Miniature Testpoint	Keystone
2	TP6, TP9		5001	Test Point, Miniature, Black, TH	Black Miniature Testpoint	Keystone
1	U1		UCC28740DR	Constant-Voltage, Constant-Current Flyback Controller Using Opto-Co	D0007A	Texas Instruments
1	U2		FOD817A	Optocoupler, 5 kV, 80-160% CTR, TH	DIP, 4-Leads, Body 6.86	Fairchild Semiconductor
1	U3		ATL431AIDBZR	2.5V Low Iq Adjustable Precision Shunt Regulator, DBZ0003A (SOT-23-	DBZ0003A	Texas Instruments

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