

Variant: 001
 Generated: 7/29/2016 12:17:05 PM
 TID #: ChangeMe!



PMP20089 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB	1		PMP20089	Any	Printed Circuit Board	
2	C1, C2, C3, C4, C5	5	4.7uF	C3225X7S2A475K200AB	TDK	CAP, CERM, 4.7 µF, 100 V, +/- 10%, X7S, 1210	1210
3	C6	1	100pF	CC0402JRNPO9BN101	Yageo America	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
4	C7, C18	2	0.1uF	C1005X7R1H104K050BB	TDK	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0402	0402
5	C8	1	4700pF	C1005X8R1H472K	TDK	CAP, CERM, 4700 pF, 50 V, +/- 10%, X8R, 0402	0402
6	C9, C13	2	1000pF	GRM155R72A102KA01D	MuRata	CAP, CERM, 1000 pF, 100 V, +/- 10%, X7R, 0402	0402
7	C10	1	0.47uF	GRM155C80G474KE01D	MuRata	CAP, CERM, 0.47 µF, 4 V, +/- 10%, X6S, 0402	0402
8	C11	1	1uF	C1005X5R1C105K050BC	TDK	CAP, CERM, 1 µF, 16 V, +/- 10%, X5R, 0402	0402
9	C12	1	4.7uF	GRM155R61E475ME15	MuRata	CAP, CERM, 4.7 µF, 25 V, +/- 20%, X5R, 0402	0402
10	C14, C15	2	330uF	T520D337M006ATE0257280	Kemet	CAP, Tantalum Polymer, 330 µF, 6.3 V, +/- 20%, 0.025 ohm, 7343-31 SMD	7343-31
11	C16, C17	2	10uF	GRM319C80J106KE19D	MuRata	CAP, CERM, 10 µF, 6.3 V, +/- 10%, X6S, 1206	1206
12	D1	1	40V	1N5819HW-7-F	Diodes Inc.	Diode, Schottky, 40 V, 1 A, SOD-123	SOD-123
13	J1	1		OSTTC022162	On-Shore Technology	Terminal Block, 2-pole, 200mil, TH	THD, 2-Leads, Body 10.16x7.6mm, Pitch 5.08mm
14	J2	1		OSTT7022150	On-Shore Technology	Terminal Block, 30A, 9.52mm (.375) Pitch, 2-Pos, TH	19.62x21.5x12.5mm
15	L1	1	2.8uH	custom		Inductor, Toroid, 1.9 µH, 14 A, 0.005 ohm	
16	Q1, Q2, Q3	3	80V	BSC072N08NS5ATMA1	Infineon Technologies	MOSFET, N-CH, 80 V, 74 A, PG-TDSON-8	PG-TDSON-8
17	R1	1	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
18	R2	1	14.3k	CRCW040214K3FKED	Vishay-Dale	RES, 14.3 k, 1%, 0.063 W, 0402	0402
19	R3	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
20	R5	1	10.2k	CRCW040210K2FKED	Vishay-Dale	RES, 10.2 k, 1%, 0.063 W, 0402	0402
21	R6	1	49.9k	CRCW040249K9FKED	Vishay-Dale	RES, 49.9 k, 1%, 0.063 W, 0402	0402
22	R7	1	2.55k	CRCW04022K55FKED	Vishay-Dale	RES, 2.55 k, 1%, 0.063 W, 0402	0402
23	R8	1	16.9k	ERA-2AEB1692X	Panasonic	RES, 16.9 k, 0.1%, 0.063 W, 0402	0402
24	R9	1	33.2k	CRCW040233K2FKED	Vishay-Dale	RES, 33.2 k, 1%, 0.063 W, 0402	0402
25	R10	1	0.007	CSNL2512FT7L00	Stackpole Electronics Inc	RES, 0.007, 1%, 2 W, 2512	2512
26	R11	1	49.9	CRCW040249R9FKED	Vishay-Dale	RES, 49.9, 1%, 0.063 W, 0402	0402
27	R12, R13	2	100	CRCW0402100RFKED	Vishay-Dale	RES, 100, 1%, 0.063 W, 0402	0402
28	TP1, TP2, TP3, TP6, TP7, TP8	6	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
29	TP4, TP5, TP9, TP10	4	Black	5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
30	U1	1		LM5117QPMH/NOPB	Texas Instruments	Wide Input Range Synchronous Buck Controller with Analog Current Monitor, PWP0020A	PWP0020A
31	Q4	0	80V	BSC072N08NS5ATMA1	Infineon Technologies	MOSFET, N-CH, 80 V, 74 A, PG-TDSON-8	PG-TDSON-8
32	R4	0	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402

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