

Variant: 001
 Generated: 8/28/2015 11:08:01 AM
 TID #: <Parameter TID not found>



PMP11185 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1, C2	2	6.8uF	UCA2G6R8MPD1TD	Nichicon	CAP, AL, 6.8uF, 400V, +/-20%, TH	CAPPR5-10x16
2	C3	1	1uF	GRM21BR71H105KA12L	MuRata	CAP, CERM, 1uF, 50V, +/-10%, X7R, 0805	0805
3	C4, C5	2	820uF	RL80J821MDN1KX	Nichicon	CAP, AL, 820uF, 6.3V, +/-20%, 0.008 ohm, TH	D8xL8
4	C6, C7	2	1uF	GRM155R61A105KE15D	MuRata	CAP, CERM, 1uF, 10V, +/-10%, X5R, 0402	0402
5	C10	1	2200pF	DE2E3KY222MA2BM01	MuRata	CAP, CERM, 2200pF, 250V, +/-20%, KY, Radial D8x5mm	Radial D8x5mm
6	C100	1	1000pF	GRM1885C1H102JA01D	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
7	D1	1	600V	RH06-T	Diodes Inc.	Diode, Switching-Bridge, 600V, 0.5A, MiniDIP	MiniDIP
8	D2	1	90V	SMAJ90A	Littelfuse	Diode, TVS, Uni, 90V, 400W, SMA	SMA
9	D3	1	1.05V	MRA4007	ON Semiconductor	DIODE GEN PURPOSE 1000V 1A SMA	SMA
10	D4	1	45V	SBR10U45SP5	Diodes Inc.	Diode, Super Barrier Rectifier, 45V, 10A, PowerDI5	PowerDI5
11	D5	1	100V	BAS316, 115	NXP Semiconductor	Diode, Ultrafast, 100V, 0.25A, SOD-323	SOD-323
12	F1	1		RST 500	Bel Fuse	Fuse, 0.5A, 250V, TH	8.35x7.7x4mm
13	J1	1		1002-021-01000	CnC Tech	Connector, Receptable, USB Type A, Vertical, TH	Vertical USB Type A
14	L1	1	100uH	ME3220-104KLB	Coilcraft	Inductor, Drum Core, Ferrite, 100uH, 0.32A, 3.5 ohm, SMD	ME3220
15	L2	1	1uH	74438335010	Würth Elektronik eiSos	Inductor, Shielded, 1 uH, 2.7 A, 0.039 ohm, SMD	3x3mm
16	Q1	1	600V	AOD3N60	Alpha & Omega Semiconductor Inc	MOSFET N-CH 600V 2.5A TO252	DPAK
17	R3	1	49.9	CRCW120649R9FKEA	Vishay-Dale	RES, 49.9 ohm, 1%, 0.25W, 1206	1206
18	R4	1	49.9	CRCW040249R9FKED	Vishay-Dale	RES, 49.9, 1%, 0.063 W, 0402	0402
19	R10	1	0.91	CRM0805-FX-R910ELF	Bourns	RES, 0.91, 1%, 0.25 W, 0805	0805
20	R11	1	1.78k	CRCW04021K78FKED	Vishay-Dale	RES, 1.78 k, 1%, 0.063 W, 0402	0402
21	R15, R17	2	100k	CRCW0402100FKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
22	R16	1	26.7k	CRCW040226K7FKED	Vishay-Dale	RES, 26.7 k, 1%, 0.063 W, 0402	0402
23	R18	1	3.01k	CRCW04023K01FKED	Vishay-Dale	RES, 3.01 k, 1%, 0.063 W, 0402	0402
24	R100	1	30	CRCW080530R0JNEA	Vishay-Dale	RES, 30, 5%, 0.125 W, 0805	0805
25	T1	1	435 uH	750315526	Würth Elektronik	Transformer, 435 uH, TH	18.8x16.9mm
26	TP1, TP2	2	White	5012	Keystone	Test Point, TH, Multipurpose, White	Keystone5012
27	TP3	1	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
28	TP4	1	Black	5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
29	U1	1		UCC28710D	Texas Instruments	Constant-Voltage, Constant-Current Controller With Primary-Side Regulation, D0007A	D0007A

IMPORTANT NOTICE FOR TI REFERENCE DESIGNS

Texas Instruments Incorporated ("TI") reference designs are solely intended to assist designers ("Buyers") who are developing systems that incorporate TI semiconductor products (also referred to herein as "components"). Buyer understands and agrees that Buyer remains responsible for using its independent analysis, evaluation and judgment in designing Buyer's systems and products.

TI reference designs have been created using standard laboratory conditions and engineering practices. **TI has not conducted any testing other than that specifically described in the published documentation for a particular reference design.** TI may make corrections, enhancements, improvements and other changes to its reference designs.

Buyers are authorized to use TI reference designs with the TI component(s) identified in each particular reference design and to modify the reference design in the development of their end products. HOWEVER, NO OTHER LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE TO ANY OTHER TI INTELLECTUAL PROPERTY RIGHT, AND NO LICENSE TO ANY THIRD PARTY TECHNOLOGY OR INTELLECTUAL PROPERTY RIGHT, 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 components or services are used. Information published by TI regarding third-party products or services does not constitute a license to use such products or services, or a warranty or endorsement thereof. Use of such information 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 REFERENCE DESIGNS ARE PROVIDED "AS IS". TI MAKES NO WARRANTIES OR REPRESENTATIONS WITH REGARD TO THE REFERENCE DESIGNS OR USE OF THE REFERENCE DESIGNS, EXPRESS, IMPLIED OR STATUTORY, INCLUDING ACCURACY OR COMPLETENESS. TI DISCLAIMS ANY WARRANTY OF TITLE AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT, QUIET POSSESSION, AND NON-INFRINGEMENT OF ANY THIRD PARTY INTELLECTUAL PROPERTY RIGHTS WITH REGARD TO TI REFERENCE DESIGNS OR USE THEREOF. TI SHALL NOT BE LIABLE FOR AND SHALL NOT DEFEND OR INDEMNIFY BUYERS AGAINST ANY THIRD PARTY INFRINGEMENT CLAIM THAT RELATES TO OR IS BASED ON A COMBINATION OF COMPONENTS PROVIDED IN A TI REFERENCE DESIGN. IN NO EVENT SHALL TI BE LIABLE FOR ANY ACTUAL, SPECIAL, INCIDENTAL, CONSEQUENTIAL OR INDIRECT DAMAGES, HOWEVER CAUSED, ON ANY THEORY OF LIABILITY AND WHETHER OR NOT TI HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, ARISING IN ANY WAY OUT OF TI REFERENCE DESIGNS OR BUYER'S USE OF TI REFERENCE DESIGNS.

TI reserves the right to make corrections, enhancements, improvements and other changes to its semiconductor products and services per JESD46, latest issue, and to discontinue any product or service per JESD48, latest issue. Buyers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. All semiconductor products are sold subject to TI's terms and conditions of sale supplied at the time of order acknowledgment.

TI warrants performance of its components to the specifications applicable at the time of sale, in accordance with the warranty in TI's terms and conditions of sale of semiconductor products. Testing and other quality control techniques for TI components are used to the extent TI deems necessary to support this warranty. Except where mandated by applicable law, testing of all parameters of each component is not necessarily performed.

TI assumes no liability for applications assistance or the design of Buyers' products. Buyers are responsible for their products and applications using TI components. To minimize the risks associated with Buyers' products and applications, Buyers should provide adequate design and operating safeguards.

Reproduction of significant portions of TI information in TI data books, data sheets or reference designs is permissible only if reproduction is without alteration and is accompanied by all associated warranties, conditions, limitations, and notices. TI is not responsible or liable for such altered documentation. Information of third parties may be subject to additional restrictions.

Buyer acknowledges and agrees that it is solely responsible for compliance with all legal, regulatory and safety-related requirements concerning its products, and any use of TI components in its applications, notwithstanding any applications-related information or support that may be provided by TI. Buyer represents and agrees that it has all the necessary expertise to create and implement safeguards that anticipate dangerous failures, monitor failures and their consequences, lessen the likelihood of dangerous failures and take appropriate remedial actions. Buyer will fully indemnify TI and its representatives against any damages arising out of the use of any TI components in Buyer's safety-critical applications.

In some cases, TI components may be promoted specifically to facilitate safety-related applications. With such components, TI's goal is to help enable customers to design and create their own end-product solutions that meet applicable functional safety standards and requirements. Nonetheless, such components are subject to these terms.

No TI components are authorized for use in FDA Class III (or similar life-critical medical equipment) unless authorized officers of the parties have executed an agreement specifically governing such use.

Only those TI components that TI has specifically designated as military grade or "enhanced plastic" are designed and intended for use in military/aerospace applications or environments. Buyer acknowledges and agrees that any military or aerospace use of TI components that have **not** been so designated is solely at Buyer's risk, and Buyer is solely responsible for compliance with all legal and regulatory requirements in connection with such use.

TI has specifically designated certain components as meeting ISO/TS16949 requirements, mainly for automotive use. In any case of use of non-designated products, TI will not be responsible for any failure to meet ISO/TS16949.