Filename: PMP9594_REVB_BOM.xlsx Generated: 3/21/2014 4:52:47 PM

PMP9594 Rev B Bill Of Materials

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer
!PCB	1		Printed Circuit Board		PMP9594	Any
C1, C2	2	6.8uF	CAP, AL, 6.8uF, 400V, +/-20%, TH	8x11	400AX6R8M8x11	Rubycon
C3, C6	2	270uF	CAP, AL, 270uF, 6.3V, +/-20%, 0.011 ohm, TH	5.0x8.0mm	RF80J271MDN1PX	Nichicon
C4, C8	2	1uF	CAP, CERM, 1uF, 25V, +/-10%, X5R, 0402	0402	C1005X5R1E105K050BC	TDK
C5	1	1uF	CAP, CERM, 1uF, 25V, +/-10%, X7R, 0603	0603	C1608X7R1E105K080AB	TDK
C7	1	2200pF	CAP, CERM, 2200pF, 250V, +/-20%, E, Radial D8x5mm	Radial D8x5mm	DE2E3KY222MA2BM01	MuRata
C9	1	22uF	CAP, CERM, 22uF, 16V, +/-10%, X5R, 0805	0805	C2012X5R1C226K125AC	TDK
D1	1	600V	Diode, Switching-Bridge, 600V, 0.5A, MiniDIP	MiniDIP	RH06-T	Diodes Inc.
D2	1	120V	Diode, TVS, Uni, 120V, 400W, SMA	SMA	SMAJ120A	Littelfuse
D3	1	1000V	Diode, P-N, 1000V, 1A, 3.9x1.7x1.8mm	3.9x1.7x1.8mm	CGRM4007-G	Comchip Technology
D4	1	45V	Diode, Super Barrier Rectifier, 45V, 10A, PowerDI5	PowerDI5	SBR10U45SP5	Diodes Inc.
D5	1	150V	Diode, P-N, 150V, 0.2A, SOD-323	SOD-323	BAV20WS-TP	Micro Commercial Components
F1	1		Fuse, 0.5A, 250V, TH	8.35x7.7x4mm	RST 500	Bel Fuse
J1	1		Connector, USB Type A, Receptacle, R/A, TH		292303-4	TE Connectivity
J3	1	2x1	Conn Term Block, 2POS, 3.81mm, TH	2POS Terminal Block	1727010	Phoenix Contact
L1	1	470uH	Inductor, Unshielded Drum Core, Ferrite, 470uH, 0.35A, 1.58 ohm, TH	D6 x 8.5mm	7447462471	Wurth Elektronik eiSos
L100	1	15ohm	FERRITE CHIP BEAD 15 OHM SMD	0603	MMZ1608R150A	TDK
Q1	1	0.4V	TRANS PWR NPN FAST HV TO-92	TO-92	STX13005G	STMicroelectronics
R1	1	100	RES, 100 ohm, 1%, 0.25W, 1206	1206	CRCW1206100RFKEA	Vishay-Dale
R2		20	RES, 20 ohm, 5%, 0.063W, 0402	0402	CRCW040220R0JNED	Vishay-Dale
R3	1	2.0k	RES, 2.0k ohm, 5%, 0.063W, 0402	0402	CRCW04022K00JNED	Vishay-Dale
R4, R7	2	2.00Meg	RES, 2.00Meg ohm, 1%, 0.25W, 1206	1206	MCR18EZHF2004	Rohm
R5	1	78.7k	RES, 78.7k ohm, 1%, 0.063W, 0402	0402	CRCW040278K7FKED	Vishay-Dale
R6	1	30k	RES, 30k ohm, 5%, 0.1W, 0603	0603	CRCW060330K0JNEA	Vishay-Dale
R8	1	1.00k	RES, 1.00k ohm, 1%, 0.063W, 0402	0402	CRCW04021K00FKED	Vishay-Dale
R9	1	1.2	RES, 1.2 ohm, 5%, 0.1W, 0603	0603	CRCW06031R20JNEA	Vishay-Dale
R10, R11, R12	3	30.1k	RES, 30.1k ohm, 1%, 0.063W, 0402	0402	CRCW040230K1FKED	Vishay-Dale
T1	1	900uH	Transformer, Discontinuous Mode Flyback, 900uH, TH	17x15x16mm	G144011LF	GCI Technologies
U1	1		Constant-Voltage, Constant-Current Controller With Primary-Side	DBV0006A	UCC28722DBV	Texas Instruments
			Regulation, BJT Drive, DBV0006A			
U2	1		USMB Dedicated Charging Port Controller and Current Limiting Power	DGN0008E	TPS2511DGN	Texas Instruments
			Switch, DGN0008E			

Notes:

Unless otherwise noted in the Alternate PartNumber and/or Alternate Manufacturer columns, all parts may be substituted with equivalents.

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, 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.