

Filename: PMP7208REVB1_BILLOFMATERIALS_bom.xls						
Date: 10/24/2012						
PMP7208REVB1_BILLOFMATERIALS BOM						
COUNT	RefDes	Value	Description	Size	Part Number	MFR
1	C7	330uF	Capacitor, 10VDC, 25milliOhm, 3Arms, 105°C, ±20%	D4		Sanyo
1	C8	330nF	Capacitor, Ceramic, 25V, X5R, 20%	0603	Std	Std
1	C9	1nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	C12	1uF	Capacitor, Ceramic, 16V, X7R, 20%	0603	Std	Std
1	C13	33pF	Capacitor, Ceramic, 50V, C0G, 5%	0603	Std	Std
1	C16	47uF	Capacitor, Ceramic, 6.3V	1206	C3216X5R0J476	TDK
1	C19	6.8nF	Capacitor, Ceramic, 50-V, X7R,	0805	STD	STD
1	C20	3.3nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	C21	47nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
4	C10-11 C17-18	470uF	Capacitor, Polymer Alum. 2V, 3milliOhm	7343	EEFGX0D471R	Panasonic
4	C1-2 C14-15	4.7uF	Capacitor, Ceramic, 16V, X7R,	0805	C2012X7R1C475M	TDK
4	C3-6	22uF	Capacitor, Ceramic, 16V, X7R	1210	C3225X7R1C226M	TDK
1	D1	MBRS330A	Diode, Schottky, 3000-mA, 30-V	SMA	MBRS330	ONsemi
3	J1-3	D120/2DS	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	ED1609-ND	DIGIKEY
4	J4-7	PTC36SAAN	Header, 3-pin, 100mil spacing, (36-pin strip)	0.100 inch x 3	PTC36SAAN	Sullins
2	J8-9	PEC02SAAN	Header, Male 2-pin, 100mil spacing,	0.100 inch x 2	PEC02SAAN	Sullins
1	L1	1uH	Inductor, SMT, 15A, 4.6milliohms	0.287 x 0.287 inch	744311100	Wuerth
1	L2	500nH	Inductor, SMT, 41Arms, 0.74milliohm	0.790 x 0.770 inch	OPEN	Coilcraft
1	L3	470nH	Inductor, SMT, 40.5Asat, 0.165milliohm	0.785 x 0.855 inch	744309047	Wuerth
4	Q1-3 Q101	CSD16325Q5	MOSFET, N-Chan, 25V, 33 A, 1.7 milli-ohm	QFN-8 POWER	CSD16325Q5	TI
4	Q4-7	NTA4153N	MOSFET, N-Ch 20V, 915 mA, ESD Protection	SC-75	NTA4153N	On Semi
1	R3	28k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R5	2.2	Resistor, Chip, 1/2W, 5%	1210	STD	STD
1	R6	10	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R7	2.67k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R9	261	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R11	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R12	44.2k	Resistor, Chip, 1/16W, 1%	0603	Std	Susumu
1	R13	88.7k	Resistor, Chip, 1/16W, 1%	0603	Std	Susumu
1	R14	178k	Resistor, Chip, 1/16W, 1%	0603	Std	Susumu
1	R15	357k	Resistor, Chip, 1/16W, 1%	0603	Std	Susumu
1	R16	24.3k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R18	open	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R10 R17	10.0k	Resistor, Chip, 1/16W, 1%	0603	Std	Std

4	R1-2 R4 R8	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	TP1 TP3-4	5005	Test Point, Red, Thru Hole Compact Style	0.125 x 0.125 inch	5005	Keystone
4	TP2 TP5 TP101-102	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
2	TP6-7	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone
1	U1	TPS40303DRC	IC, 3V-20V sync. Buck controller, 600kHz	DRC10	TPS40303DRC	TI
Notes:	1. These assemblies are ESD sensitive, ESD precautions shall be observed.					
	2. These assemblies must be clean and free from flux and all contaminants. Use of no clean flux is not acceptable.					
	3. These assemblies must comply with workmanship standards IPC-A-610 Class 2.					
	4. Ref designators marked with an asterisk (***) cannot be substituted.					
	All other components can be substituted with equivalent MFG's components.					

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.