

Filename: PMP10051RevB - BoM.xls

Generated: 7/10/2014 4:06:31 PM

Multi Output SEPIC for LCD display

Quantity	Designator	Value	Description	Package	Part Number	Manufacturer
8	+6V7, +14V, -6V7, -12V Rtn1, Rtn2, Rtn3, Rtn4	Double	Terminal, Turret, TH, Double	Keystone1502-2	1502-2	Keystone
3	C1, C3, Cc	10uF	CAP, CERM, 10uF, 25V, +/-10%, X7R, 1206	1206	GRM31CR71E106KA12L	MuRata
3	C2, C4, Cbp	1uF	CAP, CERM, 1uF, 25V, +/-10%, X7R, 0603	0603	GRM188R71E105KA12D	MuRata
1	Cin	22uF	CAP, CERM, 22uF, 25V, +/-10%, X7R, 1210	1210	GRM32ER71E226KE15L	MuRata
1	Cp	1500pF	CAP, CERM, 1500pF, 50V, +/-10%, X7R, 0603	0603	GRM188R71H152KA01D	MuRata
1	Csn	470pF	CAP, CERM, 470pF, 50V, +/-10%, X7R, 0603	0603	GRM188R71H471KA01D	MuRata
1	Css	0.033uF	CAP, CERM, 0.033uF, 16V, +/-10%, X7R, 0603	0603	GRM188R71C333KA01D	MuRata
1	Cz	0.1uF	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603	GCM188R71H104KA57D	MuRata
2	D1, D3	40V	Diode, Schottky, 40V, 1A, SOD-123	SOD-123	1N5819HW-7-F	Diodes Inc.
1	D2	70V	Diode, Schottky, 70V, 0.07A, SOT-23	SOT-23	BAS70-7-F	Diodes Inc.
2	D41, D42	100V	Diode, Ultrafast, 100V, 0.15A, SOD-123	SOD-123	1N4148W-7-F	Diodes Inc.
7	Gnd1, Gnd2, Gnd3, Gnd4 TP2, TP_AGND, TP_PGND	Black	Test Point, Miniature, Black, TH	Black Miniature Testpoint	5001	Keystone
1	J1		Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	7.0x8.2x6.5mm	ED555/2DS	On-Shore Technology
4	Jmp11, Jmp21, Jmp31, Jmp41		Header, 100mil, 2x1, Gold, TH	2x1 Header	TSW-102-07-G-S	Samtec
1	R1	44.2k	RES, 44.2k ohm, 1%, 0.1W, 0603	0603	CRCW060344K2FKEA	Vishay-Dale
1	R2	10.0k	RES, 10.0k ohm, 1%, 0.1W, 0603	0603	CRCW060310K0FKEA	Vishay-Dale
6	R11, R12, R13, R31, R32, R33	205	RES, 205 ohm, 1%, 0.25W, 1206	1206	CRCW1206205RFKEA	Vishay-Dale
1	R21	14.0k	RES, 14.0k ohm, 1%, 0.125W, 0805	0805	CRCW080514K0FKEA	Vishay-Dale
1	R41	12.1k	RES, 12.1k ohm, 1%, 0.125W, 0805	0805	CRCW080512K1FKEA	Vishay-Dale
1	Rf	301k	RES, 301k ohm, 1%, 0.1W, 0603	0603	CRCW0603301KFKEA	Vishay-Dale
1	Rnwa	49.9	RES, 49.9 ohm, 1%, 0.1W, 0603	0603	CRCW060349R9FKEA	Vishay-Dale
1	Rsn	464	RES, 464 ohm, 1%, 0.125W, 0805	0805	CRCW0805464RFKEA	Vishay-Dale

Quantity	Designator	Value	Description	Package	Part Number	Manufacturer
1	Rz	1.00k	RES, 1.00k ohm, 1%, 0.1W, 0603	0603	CRCW06031K00FKEA	Vishay-Dale
1	T1	21.6 Uh	Transformer, 21.6uH, SMT	16.8X7.4X16.3 mm	749196211	Wurth Elektronik eiSos
3	TP1, TP+6V7, TP+14V	Red	Test Point, Miniature, Red, TH	Red Miniature Testpoint	5000	Keystone
2	TP-6V7, TP- 12V	Blue	Test Point, Miniature, Blue, TH	Blue Miniature Testpoint	5117	Keystone
1	TP_drain	White	Test Point, Miniature, White, TH	White Miniature Testpoint	5002	Keystone
1	TP_NWA	Orange	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint	5003	Keystone
1	U1		3-A High Voltage Boost Converter	PWP0014E	TPS61175PWP	Texas Instruments

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.