Filename: PMP10767RevA_Bom.xls
Variant: 001
Generated: 10/13/2014 3:02:57 PM
SVN path: $URL:: $
SVN rev: $Rev:: $

Buck converter with 85-264Vin (AC) and 15Vout/0.13A

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer	Alternate PartNumber	Alternate Manufacturer
!PCB?	1		PMP9176 Rev A	N/A	PMP9176 Rev A	Any		
C1	1	10uF	CAP, CERM, 10 µF, 25 V, +/- 20%, X5R, 1210	1210	C3225X5R1E106K	TDK		
C2	1	22pF	CAP, CERM, 22pF, 50V, +/-5%, C0G/NP0, 0603	0603	06035A220JAT2A	AVX		
C3	1	150uF	CAP ALUM 150UF 25V 20% RADIAL		EEU-FR1E151B	Panasonic Electronic Compon		
C4	1	10uF	CAP ALUM 10UF 400V 20% RADIAL	10x12.5mm	EKMG401ELL100MJ20S	United Chemi-Con		
C5	1	2.2uF	CAP ALUM 2.2UF 400V 20% RADIAL	8x11	400LLE2R2MEFC8X9	Rubycon		
C6	1	0.1uF	CAP, CERM, 0.1uF, 16V, +/-5%, X7R, 0603	0603	0603YC104JAT2A	AVX		
D1	1	40V	Diode, Schottky, 40V, 0.5A, SOD-323	SOD-323	B0540WS-7	Diodes Inc.		
D2	1	600V	DIODE FAST REC 600V 1A DO214AC	SMA	ES1J-TP	Diodes Inc.		
D3	1	1000V	Diode, P-N, 1000V, 1A, TH	DO-41	1N4007	Fairchild Semiconductor		
D4	1	600V	Diode, Ultrafast, 600V, 1A, SMB	SMB	MURS160-13-F	Diodes Inc.		
L1	1	1mH	Inductor, Unshielded Drum Core, Ferrite, 1mH, 0.25A, 4.38 ohm, TH	D6 x 8.5mm	7447462102	Wurth Elektronik eiSos		
L2	1	470uH	Inductor, Unshielded Drum Core, Ferrite, 470uH, , TH	D6 x 8.5mm	744772471	Wurth Elektronik eiSos		
L4	1	10000uH	Coupled inductor, 10000uH, 0.25A, 3.5 ohm, TH	Coupled inductor, 17.5x17x11mm	UU9.8V-103LF	GCI Technologies		
L, TP1	2	Red	Test Point, Miniature, Red, TH	Red Miniature Testpoint	5000	Keystone		
N, TP2	2	Black	Test Point, TH, Miniature, Black	Keystone5001	5001	Keystone	Equivalent	Any
R1	1	51.1k	RES, 51.1 k, 1%, 0.1 W, 0603	0603	CRCW060351K1FKEA	Vishay-Dale		
R2	1	475k	RES, 475 k, 1%, 0.25 W, 1206	1206	CRCW1206475KFKEA	Vishay-Dale		
R4	1	18.7k	RES, 18.7 k, 1%, 0.1 W, 0603	0603	CRCW060318K7FKEA	Vishay-Dale		
R5	1	5.1k	RES, 5.1k ohm, 5%, 0.25W, 1206	1206	CRCW12065K10JNEA	Vishay-Dale		
RF1	1	4.7	RES, 4.7 ohm, 5%, 1W, Fusible, TH	Axial resistor	FKN1WSJR-52-4R7	Yageo America		
RT1	1	10 ohm	Thermistor NTC, 10 ohm, 20%, Disc 11.5mmx6mm	Disc 11.5mmx6mm	B57236S0100M000	EPCOS Inc		
RV1	1		Varistor 275V RMS 10MM Radial, TH	10mm Radial	S10K275E2	EPCOS Inc		
U1	1		High Voltage Flyback Switcher with Primary-side Regulation and Constant-Current Control, D0007A	D0007A	UCC28911D	Texas Instruments		Texas Instruments
R3	0	2.00k	RES, 2.00k ohm, 1%, 0.1W, 0603	0603	CRCW06032K00FKEA	Vishay-Dale		

Notes:

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

IMPORTANT NOTICE

Texas Instruments Incorporated and its subsidiaries (TI) reserve 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 (also referred to herein as “components”) 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 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.

TI does not warrant or represent that any license, either express or implied, is granted under 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.

Reproduction of significant portions of TI information in TI data books or data sheets 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.

Resale of TI components or services with statements different from or beyond the parameters stated by TI for that component or service voids all express and any implied warranties for the associated TI component or service and is an unfair and deceptive business practice. TI is not responsible or liable for any such statements.

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 which anticipate dangerous consequences of failures, monitor failures and their consequences, lessen the likelihood of failures that might cause harm 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 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 a special agreement specifically governing such use.

Only those TI components which 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 which have ***not*** been so designated is solely at the Buyer's risk, and that 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.

Products		**Applications**	
Audio	www.ti.com/audio	Automotive and Transportation	www.ti.com/automotive
Amplifiers	amplifier.ti.com	Communications and Telecom	www.ti.com/communications
Data Converters	dataconverter.ti.com	Computers and Peripherals	www.ti.com/computers
DLP® Products	www.dlp.com	Consumer Electronics	www.ti.com/consumer-apps
DSP	dsp.ti.com	Energy and Lighting	www.ti.com/energy
Clocks and Timers	www.ti.com/clocks	Industrial	www.ti.com/industrial
Interface	interface.ti.com	Medical	www.ti.com/medical
Logic	logic.ti.com	Security	www.ti.com/security
Power Mgmt	power.ti.com	Space, Avionics and Defense	www.ti.com/space-avionics-defense
Microcontrollers	microcontroller.ti.com	Video and Imaging	www.ti.com/video
RFID	www.ti-rfid.com		
OMAP Applications Processors	www.ti.com/omap	**TI E2E Community**	e2e.ti.com
Wireless Connectivity	www.ti.com/wirelessconnectivity		

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265