

Filename: PMP2844_REVA_bom.xls

Date: 07/16/2007

PMP2844_REVA BOM

COUNT	RefDes	Value	Description	SIZE	Part Number	MFR
3	C1, C2, C25	4.7uF	Capacitor, Ceramic, 100V, X7R, +/-15%	2220	Std	Murata
3	C10, C20, C38	0.22uF	Capacitor, Ceramic, 50V, X7R, 15%	0805	Std	Murata
2	C11, C35	0.01uF	Capacitor, Ceramic, 50V, X7R, 15%	0603	Std	Murata
6	C12, C17, C19, C31, C36, C39	1.0uF	Capacitor, Ceramic, 16V, X7R, 15%	0603	Std	Murata
1	C13	220pF	Capacitor, Ceramic, 50V, C0G, 5%	0603	Std	Murata
2	C14, C33	0.1uF	Capacitor, Ceramic, 50V, X7R, 15%	0603	Std	Murata
2	C15, C34	100pF	Capacitor, Ceramic, 50V, X7R, 15%	0603	Std	Murata
1	C16	0.022uF	Capacitor, Ceramic, 50V, X7R, 15%	0603	Std	Murata
2	C18, C37	100uF	Capacitor, Aluminum, 25V, ±20%	0.328 x 0.390 inch	UUX1E101MNR1MS	Nichicon
2	C21, C30	4700pF	Capacitor, Ceramic, 2KV, X7R, 20%	1812	1812CG472MAT	AVX
2	C22, C40	4700pF	Capacitor, Ceramic, 50V, X7R, 15%	0603	Std	Murata
1	C23	470pF	Capacitor, Ceramic, 50V, C0G, 5%	0603	Std	Murata
1	C24	100uF	Capacitor, Aluminum, 100V, ±20%	0.748 x 0.792 inch	UCD2A101M	Nichicon
1	C26	0.1uF	Capacitor, Ceramic, 100V, X7R, 15%	0805	Std	Murata
4	C3, C4, C5, C29	330uF	Capacitor, OS CON, 6.3V, 25-milliohm, 3.7-A, 20%	0.394 inch	STD	Sanyo
1	C32	22pF	Capacitor, Ceramic, 50V, C0G, 5%	0603	Std	Murata
5	C6, C7, C8, C27, C28	22uF	Capacitor, Ceramic, 6.3V, X5R, 15%	0805	Std	Murata
1	C9	0.047uF	Capacitor, Ceramic, 250V, X7R, 15%	1206	Std	Murata
4	D1, D2, D5, D9	BAS16	Diode, Switching, 150-mA, 75-V, 350mW	SOT23	BAS16	Vishay
1	D3	MBRS140	Diode, Schottky, 1A, 40V	SMB	MBRS140	Std
1	D4	5.1V	Diode, Zener, 200mW, 5.1V	SOD-323	BZT52C5V1S	Diodes
1	D6	MBRD360	Diode, Schottky, 3A, 60V	DPAK	MBRD360	On Semi
1	D7	MURA120	Diode, Rectifier, 1A, 200V	SMA	MURA120T3	On Semi
1	D8	11V	Diode, Zener, 200mW, 5.1V	SOD-323	BZT52C5V1S	Diodes
1	L1	2uH	Inductor, 1 pri, 1 sec	0.920 X 0.780 inch	PA0373	Pulse
1	L2	1uH	Inductor, SMT, 2.78A, 58-milliohm	0.126 x 0.098 inch	ME3220-102MX	Coilcraft
4	Q1, Q2, Q3, Q6	FDD3706	MOSFET, N-ch, 20-V, 50-A, 9-milliOhms	DPAK	FDD3706	Fairchild
2	Q4, Q9	FDB2570	MOSFET, N-ch, 150-V, 22-A, 80-milliOhms	SMD-220	FDB2570	Fairchild
1	Q5	FQD5P20	MOSFET, P-ch, 200-V, 3.7-A, 1.4-ohm	DPAK	FQD5P20	Fairchild
2	Q7, Q8	MMBT3904	Bipolar, NPN, 40-V, 200-mA, 225-W	SOT23	MMBT3904LT1	On Semi
1	R1	0	Resistor, Chip, 1/10W, yy%	0805	Std	Std

1	R13	95.3K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R14	88.7K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R15	4.12K	Resistor, Chip, 1/16W, 1%	5650	Std	Std
1	R16	4.99K	Resistor, Chip, 1/16W, 1%	5650	Std	Std
2	R18, R41	2.74K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R2	0.05	Resistor, Chip, 1/2W, 1%	2010	Std	Std
1	R20	10.0K	Resistor, Chip, 1/16W, 1%	5650	Std	Std
2	R21, R44	2.49K	Resistor, Chip, 1/16W, 1%	5650	Std	Std
2	R22, R45	2.00K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R24	47	Resistor, Chip, 1/4W, 5%	1206	Std	Std
1	R25	100K	Resistor, Chip, 1/10W, 1%	10560	Std	Std
1	R3	2.21	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R30	0.1	Resistor, Chip, 1/2W, 5%	2010	Std	Std
1	R33	66.5K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R35	4.02K	Resistor, Chip, 1/16W, 1%	5650	Std	Std
1	R37	7.50K	Resistor, Chip, 1/16W, 1%	5650	Std	Std
2	R38, R43	12.4K	Resistor, Chip, 1/16W, 1%	5650	Std	Std
3	R4, R12, R32	10.0K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R40	30.1K	Resistor, Chip, 1/16W, 1%	5650	Std	Std
9	R5, R10, R11, R19, R23, R26, R36, R42, R46	1.00K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
5	R6, R17, R27, R34, R39	158K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R7, R28	26.7K	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	R8, R29, R31	10	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R9	499	Resistor, Chip, 1/16W, 1%	5650	Std	Std
1	T1	PA0810	Transformer, High Fq Planar, Up to 140 W	0.850 x 0.920 inch	PA0810	Pulse
1	T2	TBD	Transformer	TBD	TBD	Pulse
2	U1, U4	UCC2897PW	IC, Current-Mode Active Clamp PWM Controller	PW20	UCC2897PW	TI
2	U2, U5	H11A817A	IC, Optocoupler, 5300-V, 80-160% CTR	0.380 x 0.180	H11A817A	QT Opto
1	U3	TLV431A	IC, Shunt Regulator, 1.24-V ref, 6-V, 10-mA, 1%	SOT23-5	TLV431ACDBVR	TI
1	U6	TL431A	IC, Precision Adjustable Shunt Regulator	SOT23-3	TL431ADBZ	TI

IMPORTANT NOTICE

Texas Instruments Incorporated and its subsidiaries (TI) reserve the right to make corrections, modifications, enhancements, improvements, and other changes to its products and services at any time and to discontinue any product or service without notice. Customers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. All products are sold subject to TI's terms and conditions of sale supplied at the time of order acknowledgment.

TI warrants performance of its hardware products to the specifications applicable at the time of sale in accordance with TI's standard warranty. Testing and other quality control techniques are used to the extent TI deems necessary to support this warranty. Except where mandated by government requirements, testing of all parameters of each product is not necessarily performed.

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

TI does not warrant or represent that any license, either express or implied, is granted under any TI patent right, copyright, mask work right, or other TI intellectual property right relating to any combination, machine, or process in which TI products or services are used. Information published by TI regarding third-party products or services does not constitute a license from TI 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 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. Reproduction of this information with alteration is an unfair and deceptive business practice. TI is not responsible or liable for such altered documentation. Information of third parties may be subject to additional restrictions.

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

TI products are not authorized for use in safety-critical applications (such as life support) where a failure of the TI product would reasonably be expected to cause severe personal injury or death, unless officers of the parties have executed an agreement specifically governing such use. Buyers represent that they have all necessary expertise in the safety and regulatory ramifications of their applications, and acknowledge and agree that they are solely responsible for all legal, regulatory and safety-related requirements concerning their products and any use of TI products in such safety-critical applications, notwithstanding any applications-related information or support that may be provided by TI. Further, Buyers must fully indemnify TI and its representatives against any damages arising out of the use of TI products in such safety-critical applications.

TI products are neither designed nor intended for use in military/aerospace applications or environments unless the TI products are specifically designated by TI as military-grade or "enhanced plastic." Only products designated by TI as military-grade meet military specifications. Buyers acknowledge and agree that any such use of TI products which TI has not designated as military-grade is solely at the Buyer's risk, and that they are solely responsible for compliance with all legal and regulatory requirements in connection with such use.

TI products are neither designed nor intended for use in automotive applications or environments unless the specific TI products are designated by TI as compliant with ISO/TS 16949 requirements. Buyers acknowledge and agree that, if they use any non-designated products in automotive applications, TI will not be responsible for any failure to meet such requirements.

Following are URLs where you can obtain information on other Texas Instruments products and application solutions:

Products		Applications	
Amplifiers	amplifier.ti.com	Audio	www.ti.com/audio
Data Converters	dataconverter.ti.com	Automotive	www.ti.com/automotive
DLP® Products	www.dlp.com	Communications and Telecom	www.ti.com/communications
DSP	dsp.ti.com	Computers and Peripherals	www.ti.com/computers
Clocks and Timers	www.ti.com/clocks	Consumer Electronics	www.ti.com/consumer-apps
Interface	interface.ti.com	Energy	www.ti.com/energy
Logic	logic.ti.com	Industrial	www.ti.com/industrial
Power Mgmt	power.ti.com	Medical	www.ti.com/medical
Microcontrollers	microcontroller.ti.com	Security	www.ti.com/security
RFID	www.ti-rfid.com	Space, Avionics & Defense	www.ti.com/space-avionics-defense
RF/IF and ZigBee® Solutions	www.ti.com/lprf	Video and Imaging	www.ti.com/video
		Wireless	www.ti.com/wireless-apps

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
Copyright © 2010, Texas Instruments Incorporated