

PMP2236_REVA

Filename: PMP2236_REVA_bom.xls						
Date: 1/04/2007						
PMP2236_REVA BOM						
COUNT	RefDes	Value	Description	Size	Part Number	MFR
1	C1	open	Capacitor, Ceramic, 50V, NPO	0603	Std	Std
0	C11	optional	Capacitor, Aluminum, 680uF, 16V, 20%	0.457 x 0.406	EEVFK1C681P	Panasonic
1	C12	0.1 uF	Capacitor, Ceramic, 0.1uF, 16V, X5R	0603	Std	Std
2	C2, C17	.01uF	Capacitor, Ceramic, .01uF, 25V, X7R	0603	Std	Std
1	C20	0.022uF	Capacitor, Ceramic, 0.022-uF, 25-V, X7R	0603	Std	Std
1	C26	10uF	Capacitor, Ceramic, 10uF, 6.3V, X5R, 20%	0603	C1608X5R0J106M	TDK
1	C27	open	Capacitor, Ceramic, 50V, X7R	0603	Std	Std
2	C28, C37	4.7uF	Capacitor, Ceramic, 6.3V, X5R, [tol]	0805	Std	Std
2	C29, C38	100pF	Capacitor, Ceramic, 100-pF, 50-V, X7R, 15%	0603	Std	TDK
7	C3, C6, C15, C24, C25, C34, C43	22uF	Capacitor, Ceramic, 22uF, 6.3V, X5R, 20%	1206	C3216X5R0J226M	TDK
2	C30, C39	0.1uF	Capacitor, Ceramic, 0.1-uF, 50-V, X7R, 15%	0603	Std	TDK
2	C31, C40	4700pF	Capacitor, Ceramic, 4700-pF, 50-V, X7R, 15%	0603	Std	TDK
2	C32, C41	470pF	Capacitor, Ceramic, 470-pF, 50-V, X7R, 15%	0603	Std	TDK
2	C33, C42	0.47uF	Capacitor, Ceramic, 0.01-uF, 50-V, X7R, 15%	0603	Std	TDK
2	C35, C44	33pF	Capacitor, Ceramic, 33-pF, 50-V, X7R, 15%	0603	Std	TDK
2	C36, C45	330uF	Capacitor, Aluminum, 6.3V, 330uF, ±20%	0.260 x 0.276 in	EEVFK0J331P	Panasonic
2	C4, C21	100pF	Capacitor, Ceramic, 100pF, 50V, COG	0603	Std	Std
3	C5, C18, C19	220uF	Capacitor, Aluminum, 6.3V, ±20%	0.260 x 0.276 in	EEVFK0J221D	Panasonic
4	C7, C10, C13, C16	0.01uF	Capacitor, Ceramic, 0.01-uF, 25V, X7R	0603	Std	Std
4	C8, C14, C22, C23	1 uF	Capacitor, Ceramic, 1uF, 16V, X5R	0603	Std	Std
1	C9	47pF	Capacitor, Ceramic, 47pF, 50V, COG	0603	Std	Std
2	C100, C101	390pF	Capacitor, Ceramic, 390pF, 50V, COG	0603	Std	Std
4	D1, D2, D3, D5	MBR0530	Diode, Schottky, 0.5-A, 30-V	SOD123	MBR0530T1	On Semi
2	D4, D6	MBRS340	Diode, Schottky, 3A, 40V	SMC	MBRS340	Fairchild
5	J1, J2, J4, J5, J6	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST
1	J3	PTC36SAAN	Header, 4-pin, 100mil spacing, (36-pin strip)	0.100 inch x 4	PTC36SAAN	Sullins
1	L1	6.8uH	Inductor, SMT, 6.8uH, 6.6A, 12 milliohm	0.492 sq"	DR125-6R8	Coiltronics
1	L2	3.3uH	Inductor, SMT, 10.5A, 5.67milliohm	0.492 sq"	DR127-3R3	Coiltronics
2	L3, L4	22uH	Inductor, SMT, 1.5A, zzmilliohm	0.300 sq"	DR74-220	Coiltronics
4	Q1, Q2, Q3, Q4	Si7392ADP	MOSFET, NChannel, 30V, 17.5A, 7.5milliohm	PWRPAK S0-8	Si7392ADP	Vishay
2	Q5, Q6	FDC640P	MOSFET, P-ch, 20-V, 4.5-A, 50-milliOhms	Micro6		
1	R1	open	Resistor, Chip, 1/16-W, 1%	0603	Std	Std
1	R11	10	Resistor, Chip, 10 Ohms, 1/16-W, 1%	0603	Std	Std
1	R13	3.01K	Resistor, Chip, 3.01K Ohms, 1/16-W, 1%	0603	Std	Std

PMP2236_REVA

1	R14	0	Resistor, Chip, 0 Ohm, 1/16W, 0603	0603	Std	Std
1	R17	open	Resistor, Chip, 1/16-W, 1%	0603	Std	Std
1	R18	68.1K	Resistor, Chip, 68.1K-Ohms, 1/16-W, 1%	0603	Std	Std
2	R19, R27	0.03	Resistor, Chip, 0.03-Ohms, 1/2-W, 1%	2010	Std	Std
2	R2, R15	49.9	Resistor, Chip, 49.9 Ohms, 1/16-W, 1%	0603	Std	Std
2	R20, R28	100K	Resistor, Chip, 127K-Ohms, 1/16-W, 1%	0603	Std	Std
2	R21, R29	1.0K	Resistor, Chip, 1.0K-Ohms, 1/16-W, 1%	0603	Std	Std
2	R22, R30	0	Resistor, Chip, 0-Ohms, 1/16-W, 1%	0603	Std	Std
4	R23, R24, R31, R32	100K	Resistor, Chip, 100K-Ohms, 1/16-W, 1%	0603	Std	Std
2	R25, R33	49.9	Resistor, Chip, 49.9-Ohms, 1/16-W, 1%	0603	Std	Std
2	R26, R34	115K	Resistor, Chip, 115K-Ohms, 1/16-W, 1%	0603	Std	Std
1	R5	4.99K	Resistor, Chip, 4.99K-Ohms, 1/16-W, 1%	0603	Std	Std
2	R3, R16	20K	Resistor, Chip, 20K-Ohms, 1/16-W, 1%	0603	Std	Std
1	R4	16.9K	Resistor, Chip, 16.9K-Ohms, 1/16-W, 1%	0603	Std	Std
2	R6, R12	3.3	Resistor, Chip, 3.3 Ohms, 1/16-W, 5%	0603	Std	Std
4	R7, R8, R100, R101	10K	Resistor, Chip, 10K Ohms, 1/16-W, 1%	0603	Std	Std
2	R9, R10	12.7K	Resistor, Chip, 12.7K Ohms, 1/16-W, 1%	0603	Std	Std
17	TP1, TP3, TP4, TP6, TP9, TP10, TP11, TP13, TP14, TP15, TP18, TP19, TP20, TP21, TP22, TP25, TP26	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 in	5000	Keystone
9	TP2, TP5, TP7, TP8, TP12, TP16, TP17, TP23, TP24	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 in	5001	Keystone
1	U1	TPS5124DBT	IC, Dual Synchronous PWM Controller	DBT30	TPS5124DBT	TI
2	U2, U3	TPS40200D	IC, Low Cost Sync Buck Controller	SO-8	TPS40200D	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

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

Audio	www.ti.com/audio
Amplifiers	amplifier.ti.com
Data Converters	dataconverter.ti.com
DLP® Products	www.dlp.com
DSP	dsp.ti.com
Clocks and Timers	www.ti.com/clocks
Interface	interface.ti.com
Logic	logic.ti.com
Power Mgmt	power.ti.com
Microcontrollers	microcontroller.ti.com
RFID	www.ti-rfid.com
RF/IF and ZigBee® Solutions	www.ti.com/lprf

Applications

Communications and Telecom	www.ti.com/communications
Computers and Peripherals	www.ti.com/computers
Consumer Electronics	www.ti.com/consumer-apps
Energy and Lighting	www.ti.com/energy
Industrial	www.ti.com/industrial
Medical	www.ti.com/medical
Security	www.ti.com/security
Space, Avionics and Defense	www.ti.com/space-avionics-defense
Transportation and Automotive	www.ti.com/automotive
Video and Imaging	www.ti.com/video
Wireless	www.ti.com/wireless-apps

TI E2E Community Home Page

e2e.ti.com

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
Copyright © 2011, Texas Instruments Incorporated