

Filename: PMP4608 REV_A_bom.xls

Date: 07/03/2009

PMP4608 REV_A BOM

COUNT	RefDes	Value	Description	Size	Part Number	MFR
1	C1	470pF	Capacitor, Ceramic, 50V, NPO, 5%	0603	std	std
1	C2	0.22uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	std	std
1	C3	330pF	Capacitor, Ceramic, 50V, X7R [tol]	0603	std	std
1	C4	0.1uF	Capacitor, Ceramic, 50V, X7R [tol]	0603	std	std
1	C5	0.1u	Capacitor, Ceramic, 50V, X7R, 10%	0603	std	std
1	C7	1u	Capacitor, Ceramic, 16V, X7R, 20%	0603	std	std
1	C9	100pF	Capacitor, Ceramic, 50V, NPO, [tol]	0603	std	std
7	C10	3.3uF	Capacitor, Ceramic, 3.3uF, 50V, X7R, 20%	1210	C3225X7R1H335M	TDK
	C11	3.3uF	Capacitor, Ceramic, 3.3uF, 50V, X7R, 20%	1210	C3225X7R1H335M	TDK
	C12	3.3uF	Capacitor, Ceramic, 3.3uF, 50V, X7R, 20%	1210	C3225X7R1H335M	TDK
	C13	3.3uF	Capacitor, Ceramic, 3.3uF, 50V, X7R, 20%	1210	C3225X7R1H335M	TDK
1	C14	1000u	Capacitor, multi pattern, SM 1210 to E case + F THole	0.492 inch	EKZH350ELL102MK20S	Nippon Chemicon
	C15	3.3uF	Capacitor, Ceramic, 3.3uF, 50V, X7R, 20%	1210	C3225X7R1H335M	TDK
1	C27	220u	Capacitor, Aluminum, 63V, 105C, 20%	0.393 inch	63ZL220 10X23	Rubycon
1	C28	100uF	Capacitor, Aluminum, 10V, ±20%	0.406 x 0.457 inch	EEEFK1J101P	Panasonic
	C100	3.3uF	Capacitor, Ceramic, 3.3uF, 50V, X7R, 20%	1210	C3225X7R1H335M	TDK
	C101	3.3uF	Capacitor, Ceramic, 3.3uF, 50V, X7R, 20%	1210	C3225X7R1H335M	TDK
1	C102	2.2nF	Capacitor, Ceramic, 100V, X7R, 20%	1206	Std	Std
1	D1	MBR20100	Diode, Dual Schottky, 20A, 100V	TO220	MBR20100	On Semi
2	J1	D120/2DS	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	D120/2DS	OST
	J2	D120/2DS	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	D120/2DS	OST
1	L1	22uH	Inductor, 16.4A, 7 milliohm	1.280 dia inch	2305-H	J.W.Miller
1	L3	22 uH	Inductor, Power, 8 A, 25 milliohms	0.543 x 0.516 inch	HC9-xxx-R	Cooper
2	Q1	IRF2807Z	MOSFET, N-ch, 75-V, yy-A, 9-milliohms	TO-220V	STD	STD
	Q3	IRF2807Z	MOSFET, N-ch, 75-V, yy-A, 9-milliohms	TO-220V	STD	STD
1	Q101	MMBT2222A	Bipolar, NPN, 40V, 600mA	SOT23	MMBT2222ALT1	ON Semiconductor
1	Q102	MMBT2907	Bipolar, PNP, 60V, 600mA	SOT23	MMBT2907LT1	On Semiconductor
1	R1	249k	Resistor, Chip, 1/16W, 1%	0603	std	std
1	R2	49.9k	Resistor, Chip, 1/16W, 1%	0603	std	std
1	R3	1.40k	Resistor, Chip, 1/16W, 1%	0603	std	std
1	R5	46.4k	Resistor, Chip, 1/16W, 1%	0603	std	std
2	R6	0	Resistor, Chip, 1/16W, 1%	0603	std	std
1	R9	49.9	Resistor, Chip, 1/16W, 1%	0603	std	std
1	R10	1.21k	Resistor, Chip, 1/16W, 1%	0603	std	std
1	R11	0.005	Resistor, Chip, 1W, 5%	2512	STD	STD
	R15	0	Resistor, Chip, 1/16W, 1%	0603	std	std
2	R100	4.7	Resistor, Metal Film, 1/4 watt, ± 5%	1206	CRCW1206-xxx-J	Vishay
	R101	4.7	Resistor, Metal Film, 1/4 watt, ± 5%	1206	CRCW1206-xxx-J	Vishay

1	R102	10	Resistor, Metal Film, 1/4 watt, ± 5%	1206	CRCW1206-xxx-J	Vishay
3	TP1	5011	Test Point, Black, Thru Hole	0.125 x 0.125 inch	5011	Keystone
2	TP2	5010	Test Point, Red, Thru Hole	0.125 x 0.125 inch	5010	Keystone
2	TP4	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone
	TP6	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone
1	TP7	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP8	5011	Test Point, Black, Thru Hole	0.125 x 0.125 inch	5011	Keystone
	TP10	5010	Test Point, Red, Thru Hole	0.125 x 0.125 inch	5010	Keystone
	TP11	5011	Test Point, Black, Thru Hole	0.125 x 0.125 inch	5011	Keystone
1	U1	TPS40210DGS	IC, Low Cost Non-Synchronous Boost Controller	DGS10	TPS40210DGS	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
OMAP Mobile Processors	www.ti.com/omap
Wireless Connectivity	www.ti.com/wirelessconnectivity

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

TI E2E Community Home Page

e2e.ti.com

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