

Filename: PMP4713REVE_bom.xls

Date: 02/12/2010

PMP4713REVE BOM

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
3	C2	22uF	Capacitor, Ceramic, 25V, X5R, 20%	1210	Std	Std
	C3	22uF	Capacitor, Ceramic, 25V, X5R, 20%	1210	Std	Std
	C4	22uF	Capacitor, Ceramic, 25V, X5R, 20%	1210	Std	Std
1	C6	220uF	Capacitor, Aluminum, 600mA@100kHz, 160mOhm	0.328 x 0.328 inch	EEEFK1E221P	Panasonic
1	C7	100nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	C8	330nF	Capacitor, Ceramic, 25V, X5R, 20%	0603	Std	Std
1	C9	6.8nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	C12	1uF	Capacitor, Ceramic, 25V, X5R, 20%	0603	Std	Std
4	C13	100uF	Capacitor, Ceramic, 6.3V, X5R, 20%	1210	GRM32ER60J107ME20	muRata
	C14	100uF	Capacitor, Ceramic, 6.3V, X5R, 20%	1210	GRM32ER60J107ME20	muRata
	C15	100uF	Capacitor, Ceramic, 6.3V, X5R, 20%	1210	GRM32ER60J107ME20	muRata
	C16	100uF	Capacitor, Ceramic, 6.3V, X5R, 20%	1210	GRM32ER60J107ME20	muRata
1	C18	39pF	Capacitor, Ceramic, 50V, C0G, 5%	0603	Std	Std
2	C19	1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std
	C20	1uF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std
1	C29	1nF	Capacitor, Ceramic, 50V, X7R, 10%	1206	Std	Std
1	C30	2.7nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	C31	47nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
2	J1	D120/2DS	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	ED1609-ND	DIGIKEY
	J2	D120/2DS	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	ED1609-ND	DIGIKEY
2	J7	PEC02SAAN	Header, Male 2-pin, 100mil spacing,	0.100 inch x 2	PEC02SAAN	Sullins
	J8	PEC02SAAN	Header, Male 2-pin, 100mil spacing,	0.100 inch x 2	PEC02SAAN	Sullins
1	L1	2.0uH	Inductor, SMT, 2.6mOhm, 23A rms, 22A sat	0.51 x 0.51 inch	7443551200	Wuerth
2	Q2	CSD16410Q5A	MOSFET, N-Chan, 25V, 59A, 9.6 milli-ohm	QFN-8 POWER	CSD16410Q5A	TI
	Q3	CSD16410Q5A	MOSFET, N-Chan, 25V, 59A, 9.6 milli-ohm	QFN-8 POWER	CSD16410Q5A	TI
2	Q5	CSD16322Q5	MOSFET, N-Chan, 25V, 21 A, 4.6 milli-ohm	QFN-8 POWER	CSD16322Q5	TI
	Q6	CSD16322Q5	MOSFET, N-Chan, 25V, 21 A, 4.6 milli-ohm	QFN-8 POWER	CSD16322Q5	TI
3	R1	3.3	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R2	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R3	14.0k	Resistor, Chip, 1/16W, 1%	0603	Std	Std

	R4	3.3	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R5	1	Resistor, Chip, 1/8W, 5%	1206	Std	Std
1	R6	10	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R7	6.98k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R8	3.3	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R9	60.4	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R10	10.0k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R11	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R16	2.21k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R17	open	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R18	10.0k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	SH1		Short jumper			
3	TP1	5005	Test Point, Red, Thru Hole Compact Style	0.125 x 0.125 inch	5005	Keystone
2	TP2	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
	TP3	5005	Test Point, Red, Thru Hole Compact Style	0.125 x 0.125 inch	5005	Keystone
	TP4	5005	Test Point, Red, Thru Hole Compact Style	0.125 x 0.125 inch	5005	Keystone
	TP5	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
2	TP6	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone
	TP7	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone
1	U1	TPS40304DRC	IC, 3V-20V sync. Buck controller, 600kHz	DRC10	TPS40304DRC	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		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