

Filename: PMP2657 REV_C_bom.xls

Date: 06/24/2009

PMP2657 REV_C BOM

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
1	C1	DNP	Do Not Populate	1812	N/A	N/A
1	C2	47uF	Capacitor, Aluminum, 160V, 20% , 1.065A	10 x 20mm	EEUEE2C470	Panasonic
2	C3	0.22uF	Capacitor, Ceramic, 250V, X7R, 20%	1210	C3325X7R2E224M	TDK
	C4	0.22uF	Capacitor, Ceramic, 250V, X7R, 20%	1210	C3325X7R2E224M	TDK
1	C5	0.01uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H102K	TDK
1	C10	22uF	Capacitor, Ceramic, 16V, X7R, 20%	1210	C3225X7R1C226MT	TDK
1	C11	100uF	Capacitor, Aluminum, 25V, 20%	0.260 x 0.276 inch	EEEFK1E101XP	Panasonic
3	C12	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
	C14	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
1	C15	220pF	Capacitor, Ceramic, 50V, COG, 10%	0603	Std	Std
	C16	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
2	C18	1uF	Capacitor, Ceramic, 16V, X7R, 20%	0603	C1608X7R1C105M	TDK
1	C19	100pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H101K	TDK
1	C20	680pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	C21	100pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	C22	0.022uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
	C23	1uF	Capacitor, Ceramic, 16V, X7R, 20%	0603	C1608X7R1C105M	TDK
2	D2	MURS120T3	Diode, UltraFast Rectifier, 1-A, 200-V	SMB	MURS120T3	On Semi
	D3	MURS120T3	Diode, UltraFast Rectifier, 1-A, 200-V	SMB	MURS120T3	On Semi
1	D4	MMSD914	Diode, Switching, 100-V, 200-mA, 225-mW	SOD-123	MMSD914T1	On Semi
1	D5	10V	Diode, Zener, 10-V, 20-mA, 225-mW, 5%	SOT23	MMBZ5240BLT1	On Semi
1	D6	BAT54	Diode, Schottky, 200-mA, 30-V	SOT23	BAT54	Vishay-Liteon
1	D7	BAS21	Diode, Switching, 200-mA, 200-V, 330-mW	SOT23	BAS21	Zetex
1	J2	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST
1	J3	PTC36SAAN	Header, Male 2-pin, 100mil spacing, Rt Angle	0.100 inch x 2	Std	Sullins
1	L1	1uH	Inductor, SMT, 2.9A, 50milliohm	0.26x0.09 inch	DO1608C-102ML	Coilcraft
1	Q1	IRF7465	MOSFET, N-Chan, 150V, 280 miliohm, 1.9A	SO8	IRF7465	IR
1	Q2	FMMT495TA	TRANSISTOR, NPN, 1A, 150V	SOT-23	FMMT495TA	Zetex
1	Q100	MMBT3904LT1	Bipolar, NPN, xx-V, yy-mA, zz-W	SOT23	MMBT3904LT1	On Semi
1	R1	49.9k	Resistor, Metal Film, 1/4 watt, ± 5%	1206	Std	Std
1	R2	1k	Resistor, Chip, 1/2W, 5%	2010	Std	Std
1	R4	1	Resistor, Chip, 1/8W, 1%	1206	Std	Std
1	R6	340k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R7	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std
4	R9	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R10	0.05	Resistor, Metal Film, 1/4 watt, ± 5%	1206	Std	Std

2	R11	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R12	32.4k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R13	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R14	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R15	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R16	49.9k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R19	49.9k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R20	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R21	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R22	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R23	13.0k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R100	100	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R101	100k	Resistor, Metal Film, 1/4 watt, ± 5%	1206	Std	Std
	R102	100k	Resistor, Metal Film, 1/4 watt, ± 5%	1206	Std	Std
1	R103	33k	Resistor, Metal Film, 1/4 watt, ± 5%	1206	Std	Std
1	T1	VPH2-0216	Transformer, 21.6uH, ±20%	0.661x 0.642 inch	VP[H]2-0216	Cooper
5	TP1	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
2	TP3	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
	TP5	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP6	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
	TP7	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP8	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP9	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
1	U1	TPS40210DGQ	IC, 4.5V-52V I/P, Current Mode Boos Controller	DGQ10	TPS40210DGQ	TI
1	U2	TCMT1107	IC, Photocoupler, CTR = 80% - 160%	MF4	TCMT1107	Vishay
1	U3	TL431AIDBZ	IC, Precision Adjustable Shunt Regulator	SOT23-3	TL431AIDBZ	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