

Filename: PMP5593REVD_bom.xls							
Date: 12/13/2010							
PMP5593REVD BOM							
COUNT	RefDes	Value	Description	Size	Part Number	Mfr	Area
4	C1	10nF	Capacitor, Ceramic, 100V, X7R, 10%	0603	Std	Std	5650
	C2	10nF	Capacitor, Ceramic, 100V, X7R, 10%	0603	Std	Std	5650
	C3	10nF	Capacitor, Ceramic, 100V, X7R, 10%	0603	Std	Std	5650
	C4	10nF	Capacitor, Ceramic, 100V, X7R, 10%	0603	Std	Std	5650
1	C5	1nF	Capacitor, Ceramic, 100V, X7R, 10%	0805	Std	Std	10560
2	C6	100nF	Capacitor, Ceramic, 100V, X7R, 10%	0805	Std	Std	10560
1	C7	1000pF	Capacitor, Ceramic, 2kV, X7R 10%	1808	C4520X7R3D102K	TDK	29,432
1	C8	680pF	Capacitor, Ceramic, 25V, X7R, 10%	0603	Std	Std	5650
1	C9	22uF	Capacitor, Aluminum, 100V, 20%	8x10.2mm	EEVFK2A220P	Panasonic	144480
2	C10	2.2uF	Capacitor, Ceramic, 100V, X7R, 10%	1210	Std	Std	83,600
	C11	2.2uF	Capacitor, Ceramic, 100V, X7R, 10%	1210	Std	Std	83,600
	C12	100nF	Capacitor, Ceramic, 100V, X7R, 10%	0805	Std	Std	10560
1	C14	100uF	Capacitor, Aluminum, 6.3V, ±20%	6.3x5.8mm	EEVFK0J101P	Panasonic	106,140
1	C15	1uF	Capacitor, Ceramic, 16V, X7R, 10%	0805	Std	Std	10560
1	C16	10uF	Capacitor, Ceramic, 16V, X5R, 20%	1206	C3216X5R1C106M	TDK	15390
1	C18	100nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std	5650
1	C19	2200pF	Capacitor, Ceramic, 2KV, X7R, 10%	1812	C4532X7R3D222K	TDK	43,360
1	C21	1nF	Capacitor, Ceramic, 50V, C0G, 5%	0603	Std	Std	5650
1	C22	470nF	Capacitor, Ceramic, 25V, X7R, 10%	0603	Std	Std	5650
1	C23	22nF	Capacitor, Ceramic, 25V, X7R, 10%	0603	Std	Std	5650
1	C24	2.2uF	Capacitor, Ceramic, 10V, X7R, 10%	0805	Std	Std	10560
1	C25	100uF	Capacitor, Ceramic, 6.3V, X5R, 10%	1210	C3225X5R0J107K	Vishay	83,600
1	C101	100nF	Capacitor, Ceramic, 16V, X7R, 10%	0603	Std	Std	5650
1	D1	SMAJ58A	Diode, TVS, 58-V, 1W	SMA	SMAJ58A	Diodes Inc.	37520
2	D2	HD01	Bridge Rectifier, 100V, 0.8A	MINI DIP4	HD01	Diodes, Inc	60528
	D3	HD01	Bridge Rectifier, 100V, 0.8A	MINI DIP4	HD01	Diodes, Inc	60528
1	D4	DNP	Rectifier, Ultrafast Power, 200V, 1A	SMA	MURA120T3	On Semi	4088
2	D6	MURA120	Rectifier, Ultrafast, 200V, 1A	SMA	MURA120T3	On Semi	4088
1	D7	BAS16	Diode, Switching, 200mA, 75V, 225mW	SOT23	BAS16LT1	On Semi	14105
1	D8	BAV99	Diode, Dual Ultra Fast, Series, 200-mA, 70-V	SOT23	BAV99	Fairchild	14105
	D9	MURA120	Rectifier, Ultrafast, 200V, 1A	SMA	MURA120T3	On Semi	4088

1	D11	MBRS540T3	Diode, Schottky, 5-A, 40-V	SMC	MBRS540T3	On Semi	95000
1	D101	5.1V	Diode, Zener, 200mW, 5.1V	SOD-323	BZT52C5V1S	Diodes, Inc	15500
2	FB1		Bead, Ferrite, SMT, 15-Ohms, 1500mA	0805	MMZ2012R150A	Steward	17,1
	FB2		Bead, Ferrite, SMT, 15-Ohms, 1500mA	0805	MMZ2012R150A	Steward	17,1
2	J1	5520252-4	Connector, Jack, Modular, 8 POS	0.705 x 0.820	5520252-4	AMP	578100
	J2	5520252-4	Connector, Jack, Modular, 8 POS	0.705 x 0.820	5520252-4	AMP	578100
1	J3	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514		75525
1	J4	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST	70125
1	L1	3.3uH	Inductor, SMT, 2A, 70milliohm	5.1x5.1mm	MSS5121-332ML	Coilcraft	65
1	L101	1uH	Inductor, SMT, 2.7A, 58milliohm	0.126 x 0.098 inch	ME3220-102ML	Coilcraft	28,500
1	Q1	Si4848DY	MOSFET, N-ch, 150V, 4.5A, 45milliohm	SO8	Si4848DY	Vishay	75900
4	R1	75	Resistor, Chip, 1/16W, 5%	0603	Std	Std	9100
	R2	75	Resistor, Chip, 1/16W, 5%	0603	Std	Std	9100
	R3	75	Resistor, Chip, 1/16W, 5%	0603	Std	Std	9100
	R4	75	Resistor, Chip, 1/16W, 5%	0603	Std	Std	9100
1	R5	20	Resistor, Chip, 1/10W, 5%	0805	Std	Std	15300
1	R6	39K	Resistor, Chip, 1/10W, 5%	0805	Std	Std	10560
1	R7	24.9K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5,650
1	R8	51	Resistor, Chip, 1/4W, 5%	1206	Std	Std	15390
1	R9	60.4K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5,650
1	R10	100K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5,650
1	R11	90.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5,650
2	R12	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R13	10	Resistor, Chip, 1/10W, 5%	0805	Std	Std	10560
	R14	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R15	249	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
2	R16	1K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
	R19	1K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R20	0.39	Resistor, Chip, 1/4W, 1%	1206	Std	Std	20,000
1	R21	10K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R22	1.5K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5,650
1	R23	6.04K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R24	200	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R25	5.90K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R26	392K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	R27	75K	Resistor, Chip, 1/16W, 1%	0603	Std	Std	5650
1	T1	H2019	Xfmr, Center-tapped, Voice Over IP	0.500 x 0.370	H2019	Pulse	238,500

1	T2	PoE70P-33L	Transformer, Pulse, 155uH	0.500 x 0.600 inch	POE70P-33L	Coilcraft	349,8
1	TP1	5014	Test Point, Yellow, Thru Hole	0.125 x 0.125 inch	5014	Keystone	10
1	TP2	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone	10
1	TP3	5013	Test Point, Orange, Thru Hole	0.125 x 0.125 inch	5013	Keystone	10
1	TP4	5012	Test Point, White, Thru Hole	0.125 x 0.125 inch	5012	Keystone	10
1	U1	TPS23753PW	IC, IEEE 802.3af Integrated Primary Side Ctrl	TSSOP14	TPS23753PW	TI	47120
1	U2	TCMT1107	IC, Photocoupler, 3750VRMS, 80-160% CTR	MF4	TCMT1107	Vishay	47,740
1	U3	TLV431ACDBVR	IC, Shunt Regulator, 6V, 10mA, 1%	SOT23-5	TLV431ACDBVR	TI	16384
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