

Filename: PMP5515 REV\_C\_bom.xls

Date: 06/10/2010

## PMP5515 REV\_C BOM

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
2	C1	1uF	Capacitor, Ceramic, 100V, X7R, 10%	1206	C3216X7R2A105K	TDK
	C2	1uF	Capacitor, Ceramic, 100V, X7R, 10%	1206	C3216X7R2A105K	TDK
1	C3	150uF	Capacitor, Aluminum Electrolytic, 25V	0.248 inch	EKZM250ELL151MF11D	Nippon Chemi-Con
4	C7	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
1	C8	150uF	Capacitor, Aluminum Electrolytic, 10V	0.197 inch	EKZM100ELL151ME11D	Nippon Chemi-Con
1	C9	33uF	Capacitor, Aluminum, 10V, ±20%	0.201 x 0.262 inch	EMVS100ADA330ME46G	Nippon Chemi-Con
1	C10	22uF	Capacitor, Ceramic, 16V, X7R, 20%	1210	C3225X7R1C226MT	TDK
2	C11	220uF	Capacitor, Aluminum Electrolytic, 6.3V	0.197 inch	EKZM6R3ELL221ME11D	Nippon Chemi-Con
	C12	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
1	C13	470pF	CAP 250VAC CERAMIC Y2/X1	0.236 x 0.315 inch	ECK-NVS471KB	Panasonic
1	C14	10pF	Capacitor, Ceramic, 50V, C0G, 10%	0603	STD	STD
	C15	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
1	C16	47uF	Capacitor, Aluminum Electrolytic, 35V	0.248 inch	STD	Rubycon
	C17	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H104K	TDK
1	C18	0.015uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	Std	Std
1	C19	100pF	Capacitor, Ceramic, 50V, X7R, 10%	0603	C1608X7R1H101K	TDK
1	C20	4700pF	Capacitor, Ceramic, 500V, X7R, 10%	1206	Std	Std
2	C21	4.7uF	Capacitor, Aluminum, 400V	0.315 inch	UVR2G4R7MPD	Nichicon
	C22	4.7uF	Capacitor, Aluminum, 400V	0.315 inch	UVR2G4R7MPD	Nichicon
1	C23	0.1uF	Capacitor, Ceramic, 50V, X7R, 10%	0603	std	std
1	C25	1uF	Capacitor, Ceramic, 16V, X7R, 20%	0603	std	std
1	C26	68uF	Capacitor, Alum, 16V, 20%	0.200 x 0.210 inch	EEEFK1C680AP	Panasonic
	C100	220uF	Capacitor, Aluminum Electrolytic, 6.3V	0.197 inch	EKZM6R3ELL221ME11D	Nippon Chemi-Con
1	D2	MBRS190T3	Diode, Schottky, 1-A, 90-V	SMB	MBRS190T3	ON Semi
2	D3	MBRA140LT3	Diode, Schottky, 1-A, 40-V	SMA	MBRA140LT3	ON Semi
1	D4	RH06-T	Diode, Bridge, 0.5-A, 600-V	MiniDIP	RH06-T	Diodes
1	D5	MURA160T3	Diode, Rectifier, 1A, 600V	SMA	MURA160T3	ON Semiconductor
	D6	MBRA140LT3	Diode, Schottky, 1-A, 40-V	SMA	MBRA140LT3	ON Semi
3	D7	BAS21	Diode, Switching, 200-mA, 200-V, 330-mW	SOT23	BAS21	Zetex
1	D8	MBR0520L	Diode, Schottky, 0.5A, 20V	SOD-123	MBR0520L	Fairchild
1	D9	25V	Diode, Zener, 25V, 10-mA	SOD-123	MMSZ5253BT1G	On Semi
	D10	BAS21	Diode, Switching, 200-mA, 200-V, 330-mW	SOT23	BAS21	Zetex
	D11	BAS21	Diode, Switching, 200-mA, 200-V, 330-mW	SOT23	BAS21	Zetex
1	D100	24V	Diode, Zener, 24-V, 350-mW	SOT-23	BZX84C24LT1	ON Semi
1	D101	10V	Diode, Zener, 10-V, 350-mW	SOT-23	BZX84C10LT1	ON Semi
4	J1	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST
	J2	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST
	J3	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST

	J4	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST
1	L1	1mH	Inductor, Power, 0.25A, 3.4 Ohms	0.350 x 0.300 inch	RFB0807-102L	Coilcraft
1	L2	10uH	Inductor, Power, 3A	0.350 x 0.300 inch	RFB0807-100L	Coilcraft
1	Q1	FQD2N60C	MOSFET, N-ch, 600V, 1.9A, 4.7 ohm	DPAK	FQD2N60C	Fairchild
1	Q2	MMBT2222A	TRANSISTOR, NPN, HIGH-PERFORMANCE, 500mA	SOT-23	MMBT2222A	Fairchild
1	R1	432k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R2	221k	Resistor, 1/4 watt, 5%	1206	Std	Std
2	R3	3MEG	Resistor, 1/4 watt, 5%	1206	Std	Std
1	R4	10	Resistor, Fusible Power, 1W	0.300 X 0.100 inch	NFR0100001009JR500	Vishay
1	R5	66.5k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R6	3MEG	Resistor, 1/4 watt, 5%	1206	Std	Std
1	R7	2.2	Resistor, Chip, 1/16W, 5%	0805	Std	Std
1	R8	169k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay
1	R9	10	Resistor, Chip, 1/16W, 5%	0805	Std	Std
1	R10	499	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R11	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R12	51.1k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay
1	R13	DNP	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R14	100k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay
1	R15	68.1k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay
1	R16	6.04k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R17	20k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay
	R18	100k	Resistor, Chip, 1/16W, 1%	0603	CRCW0603-xxxx-F	Vishay
1	R19	665k	Resistor, Chip, 1/10W, ±1%	0603	Std	Std
1	R20	221k	Resistor, Chip, 1/10W, ±1%	0603	Std	Std
2	R21	100k	Resistor, Chip, 1/10W, ±1%	0603	Std	Std
	R22	100k	Resistor, Chip, 1/10W, ±1%	0603	Std	Std
1	R23	100	Resistor, Chip, 1/10W, 5%	0805	CRCW0805-xxx-J	Vishay
1	R24	12.1k	Resistor, Chip, 1/10W, 1%	0805	CRCW0805-xxxx-F	Vishay
1	R25	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R26	2.15k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R27	249	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	T2	570 uH	Xfmr, ±10%	20.50 x 25.00 mm	760871834	WE
3	TP1	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone
	TP2	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone
4	TP3	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
4	TP4	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	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone
	TP9	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100 inch	5000	Keystone
	TP10	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch	5001	Keystone

	TP11	5002	Test Point, White, Thru Hole Color Keyed	0.100 x 0.100 inch	5002	Keystone
1	U1	TPS76201DBV	IC, Micro-Power 100 mA LDO Regulator	SOT23-5	TPS76201DBV	TI
1	U2	UCC28610D	IC, Flyback Green-Mode Controller	SO8	UCC28610D	TI
1	U3	TCMT1107	IC, Photocoupler	MF4	TCMT1107	Vishay
2	U4	TLV431A	IC, Low-Voltage Adjustable Shunt Regulator	SOT23-3	TLV431AIDBZ	TI
	U5	TLV431A	IC, Low-Voltage Adjustable Shunt Regulator	SOT23-3	TLV431AIDBZ	TI
1	U6	TLV1117	IC, vvV, 800mA LDO Voltage Regulators	SOT-223	TLV1117CDCR	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:

<b>Products</b>		<b>Applications</b>	
Amplifiers	<a href="http://amplifier.ti.com">amplifier.ti.com</a>	Audio	<a href="http://www.ti.com/audio">www.ti.com/audio</a>
Data Converters	<a href="http://dataconverter.ti.com">dataconverter.ti.com</a>	Automotive	<a href="http://www.ti.com/automotive">www.ti.com/automotive</a>
DLP® Products	<a href="http://www.dlp.com">www.dlp.com</a>	Communications and Telecom	<a href="http://www.ti.com/communications">www.ti.com/communications</a>
DSP	<a href="http://dsp.ti.com">dsp.ti.com</a>	Computers and Peripherals	<a href="http://www.ti.com/computers">www.ti.com/computers</a>
Clocks and Timers	<a href="http://www.ti.com/clocks">www.ti.com/clocks</a>	Consumer Electronics	<a href="http://www.ti.com/consumer-apps">www.ti.com/consumer-apps</a>
Interface	<a href="http://interface.ti.com">interface.ti.com</a>	Energy	<a href="http://www.ti.com/energy">www.ti.com/energy</a>
Logic	<a href="http://logic.ti.com">logic.ti.com</a>	Industrial	<a href="http://www.ti.com/industrial">www.ti.com/industrial</a>
Power Mgmt	<a href="http://power.ti.com">power.ti.com</a>	Medical	<a href="http://www.ti.com/medical">www.ti.com/medical</a>
Microcontrollers	<a href="http://microcontroller.ti.com">microcontroller.ti.com</a>	Security	<a href="http://www.ti.com/security">www.ti.com/security</a>
RFID	<a href="http://www.ti-rfid.com">www.ti-rfid.com</a>	Space, Avionics & Defense	<a href="http://www.ti.com/space-avionics-defense">www.ti.com/space-avionics-defense</a>
RF/IF and ZigBee® Solutions	<a href="http://www.ti.com/lprf">www.ti.com/lprf</a>	Video and Imaging	<a href="http://www.ti.com/video">www.ti.com/video</a>
		Wireless	<a href="http://www.ti.com/wireless-apps">www.ti.com/wireless-apps</a>

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265  
Copyright © 2010, Texas Instruments Incorporated