

PMP7094 REVB BOM

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
3	C1	100uF	Capacitor, Ceramic, 6.3-V, X5R, 20%	1210	C3225X5R0J107M	TDK
	C2	100uF	Capacitor, Ceramic, 6.3-V, X5R, 20%	1210	C3225X5R0J107M	TDK
4	C3	1uF	Capacitor, Ceramic, 16V, X7R, 20%	603	C1608X7R1C105M	TDK
4	C4	2.2uF	Capacitor, Ceramic, 100-V, X7R, 20%	1210	C3225X7R2A225M	TDK
	C5	2.2uF	Capacitor, Ceramic, 100-V, X7R, 20%	1210	C3225X7R2A225M	TDK
1	C6	10nF	Capacitor, Ceramic, 250-V, X7R	1206	C3216X7R2E103M	TDK
1	C7	1nF	Capacitor, Ceramic, 2kV, C0G, 10%	1812	Std	Std
	C8	1uF	Capacitor, Ceramic, 16V, X7R, 20%	603	C1608X7R1C105M	TDK
2	C9	100nF	Capacitor, Ceramic, 50V, X7R, 10%	603	C1608X7R1H104K	TDK
2	C12	22uF	Capacitor, Ceramic, 16-V, X7R, 20%	1210	C3225X7R1C226M	TDK
	C13	1uF	Capacitor, Ceramic, 16V, X7R, 20%	603	C1608X7R1C105M	TDK
1	C14	100pF	Capacitor, Ceramic, 50V, C0G, 5%	603	C1608C0G1H101J	TDK
1	C15	47nF	Capacitor, Ceramic, 50V, X7R, 10%	603	C1608X7R1H473K	TDK
1	C16	4.7nF	Capacitor, Ceramic, 50V, X7R, 10%	603	C1608X7R1H103K	TDK
	C17	1uF	Capacitor, Ceramic, 16V, X7R, 20%	603	C1608X7R1C105M	TDK
1	C19	OPEN	Capacitor, Ceramic, 50V, X7R, 10%	603	C1608X7R1H102K	TDK
	C21	22uF	Capacitor, Ceramic, 16-V, X7R, 20%	1210	C3225X7R1C226M	TDK
	C100	100nF	Capacitor, Ceramic, 50V, X7R, 10%	603	C1608X7R1H104K	TDK
	C101	2.2uF	Capacitor, Ceramic, 100-V, X7R, 20%	1210	C3225X7R2A225M	TDK
	C102	2.2uF	Capacitor, Ceramic, 100-V, X7R, 20%	1210	C3225X7R2A225M	TDK
	C103	100uF	Capacitor, Ceramic, 6.3-V, X5R, 20%	1210	C3225X5R0J107M	TDK
1	C104	100uF	Capacitor, Ceramic, 6.3-V, X5R, 20%	1210	C3225X5R2A107M	TDK
1	C105	10nF	Capacitor, Ceramic, 50V, B, 10%	603	GRM188B11H103KA01	muRata
4	D1	MMDL914T1	Diode, Switching, 100-V, 200-mA, 200-mW,	SOD-323	MMDL914T1	On Semiconductor
	D3	MMDL914T1	Diode, Switching, 100-V, 200-mA, 200-mW,	SOD-323	MMDL914T1	On Semiconductor
1	D4	10V	Diode, Zener, 200mW, 10V	SOD-323	BZT52C10S	Diodes Inc
	D6	MMDL914T1	Diode, Switching, 100-V, 200-mA, 200-mW,	SOD-323	MMDL914T1	On Semiconductor
	D100	MMDL914T1	Diode, Switching, 100-V, 200-mA, 200-mW,	SOD-323	MMDL914T1	On Semiconductor
1	D101	B330A	Diode, Schottky, 3-A, 30-V	SMA	B330A	Diodes Inc.
1	J1	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST
1	J2	ED1609-ND	Terminal Block, 2-pin, 15-A, 5.1mm	0.40 x 0.35 inch	ED1609	OST
1	L1	3.6uH	Inductor, SMT, 23-Arms/25-Asat, 1.82-milliohm	0.790 x 0.770 inch	SER2013-362MLD	Coilcraft
2	Q1	CSD17501Q5A	MOSFET, NChan, 30V, 28A, 2.9millohm	PWRPAK S0-8	CSD17501Q5A	Texas Instruments
	Q2	CSD17501Q5A	MOSFET, NChan, 30V, 28A, 2.9millohm	PWRPAK S0-8	CSD17501Q5A	Texas Instruments
1	Q3	PZT2907A	Transistor, PNP, 60-V, 800-mA, 1000-mW	SOT-223	PZT2907A	Fairchild
1	Q4	Si2325DS	MOSFET, P-ch, -150 V, 690-mA, 1.2 Ohms	SOT-23	Si2325DS	Vishay
1	Q5	BSC520N15NS3G	MOSFET, NChannel, 150V, 21A, 52 milliohm	PWRPAK S0-8	BSC520N15NS3 G	Infineon
1	Q6	PZT2222A	Trans, NPN, 40Vceo, 1A	SOT-223	PZT2222A	ON Semi
1	R1	10	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R2	3.01k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
3	R3	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R5	0.1	Resistor, 150 milliohm, 1W, 5%	2512	STD	STD
3	R6	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R7	7.68k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R8	100k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R9	100k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	R10	90.9k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R11	90.9k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R12	3.65k	Resistor, Chip, 1/16W, 1%	0603	Std	Std

COUNT	RefDes	Value	Description	Size	Part Number	Mfr
1	R13	1.78k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R14	49.9k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R15	499	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R16	154	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R17	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R18	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R21	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R22	6.04k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R24	49.9	Resistor, Chip, 1/16W, 1%	0603	Std	Std
	R100	1k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	R101	2.2	Resistor, Chip, 1/2W, 1%	1812	Std	Std
1	T1	PA0457	XFMR, High Frequency Planar, 67W	0.750 x 0.780 inch	PA0457	Pulse
4	TP1	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100	5000	Keystone
	TP2	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100	5000	Keystone
2	TP3	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100	5001	Keystone
	TP4	5001	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100	5001	Keystone
	TP5	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100	5000	Keystone
	TP6	5000	Test Point, Red, Thru Hole Color Keyed	0.100 x 0.100	5000	Keystone
1	U1	UCC2897ARTJ	IC, Active Clamp PWM Controller	QFP-20	UCC2897ARTJ	Texas Instruments
1	U2	TCMT1107	IC, Photocoupler, CTR = 80% - 160%	MF4	TCMT1107	Vishay
1	U3	TLV431A	IC, Low-Voltage Adjustable Shunt Regulator	SOT23-3	TLV431ACDBZR	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 Cla:
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

Automotive and Transportation	www.ti.com/automotive
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
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 © 2012, Texas Instruments Incorporated