PMP10691 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB?	1		PMP7935	Any	PMP7935	N/A
C1, C2, C3, C4, C5, C6, C7, C8	8	10uF	GRM31CR61E106KA12L	MuRata	CAP, CERM, 10uF, 25V, +/-10%, X5R, 1206	1206
C9, C25, C41	3	100pF	GRM1555C1H101JA01D	MuRata	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0402	0402
C10, C23, C40	3	0.1uF	GRM155R71C104KA88D	MuRata	CAP, CERM, 0.1uF, 16V, +/-10%, X7R, 0402	0402
C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36	22	100uF	GRM31CR60J107ME39L	MuRata	CAP, CERM, 100uF, 6.3V, +/-20%, X5R, 1206	1206
C22	1	0.047uF	GRM155R71C473KA01D	MuRata	CAP, CERM, 0.047uF, 16V, +/-10%, X7R, 0402	0402
C24	1	680pF	C1608C0G1H681J	TDK	CAP, CERM, 680pF, 50V, +/-5%, C0G/NP0, 0603	0603
C37	1	3300pF	GRM155R71H332KA01D	MuRata	CAP, CERM, 3300pF, 50V, +/-10%, X7R, 0402	0402
C38	1	6800pF	GRM155R71E682KA01D	MuRata	CAP, CERM, 6800pF, 25V, +/-10%, X7R, 0402	0402
C39	1	4.7uF	GRM155R60J475ME87D	MuRata	CAP, CERM, 4.7uF, 6.3V, +/-20%, X5R, 0402	0402
C42	1	2.2uF	GRM188R61C225KE15D	MuRata	CAP, CERM, 2.2uF, 16V, +/-10%, X5R, 0603	0603
D1	1	0.55V	SDM20U40-7-F	Diodes Inc.	Diode, Schottky, 40V, 0.25A, SOD-523	SOD-523
H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
J1	1	2x1	1715721	Phoenix Contact	Conn Term Block, 2POS, 5.08mm PCB	PhoenixContact_1715721
J2, J3	2	50 ohm	A-1JB	Amphenol	Connector, RF Jack, Vertical, Gold, SMD	A-1JB
L1	1	0.25uH	744301025	Wurth Elektronik eiSos	Inductor, MnZn Ferrite, WE-HCM, 0.25uH, 40A, 0.00032 ohm, SMD	WE-HCM-1190
LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650"H x 0.200"W
Q1, Q2	2		CSD87350Q5D	Texas Instruments	NexFET Power Block, 30V, 40A, SON 5mm x 6mm	
Q3	1	0.2V	MMBT3904	Diodes Inc.	Transistor, NPN, 40V, 0.2A, SOT-523	SOT-523
R1, R2	2	6.81k	CRCW04026K81FKED	Vishay-Dale	RES, 6.81k ohm, 1%, 0.063W, 0402	0402
R3	1	2.15k	CRCW04022K15FKED	Vishay-Dale	RES, 2.15k ohm, 1%, 0.063W, 0402	0402
R4	1	100	CRCW0402100RFKED	Vishay-Dale	RES, 100 ohm, 1%, 0.063W, 0402	0402
R5	1	3.01k	CRCW04023K01FKED	Vishay-Dale	RES, 3.01k ohm, 1%, 0.063W, 0402	0402
R6	1	665	CRCW0402665RFKED	Vishay-Dale	RES, 665, 1%, 0.063 W, 0402	0402
R7	1	1.50k	CRCW04021K50FKED	Vishay-Dale	RES, 1.50k ohm, 1%, 0.063W, 0402	0402
R8	1	2.2	CRCW08052R20JNEA	Vishay-Dale	RES, 2.2 ohm, 5%, 0.125W, 0805	0805
R9	1	19.6k	CRCW040219K6FKED	Vishay-Dale	RES, 19.6k ohm, 1%, 0.063W, 0402	0402
R10	1	10.0	CRCW040210R0FKED	Vishay-Dale	RES, 10.0 ohm, 1%, 0.063W, 0402	0402
R11	1	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0k ohm, 1%, 0.063W, 0402	0402
R12	1	47.5k	CRCW040247K5FKED	Vishay-Dale	RES, 47.5k ohm, 1%, 0.063W, 0402	0402
R13	1	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10k ohm, 5%, 0.063W, 0402	0402
R14	1	82.5k	CRCW040282K5FKED	Vishay-Dale	RES, 82.5k ohm, 1%, 0.063W, 0402	0402
R15	1	2.2	CRCW04022R20JNED	Vishay-Dale	RES, 2.2 ohm, 5%, 0.063W, 0402	0402
R16, R17	2	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9 ohm, 1%, 0.1W, 0603	0603
T1, T2	2	50A	CB35-36-CY	Panduit	Terminal 50A Lug	CB35-36-CY
TP1, TP3, TP5, TP9	4	Triple	1598-2	Keystone	Terminal, Turret, TH, Triple	Keystone1598-2
TP2, TP6	2	Red	5000	Keystone	Test Point, TH, Miniature, Red	Keystone5000

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
TP4, TP8, TP10, TP12, TP14	5	Black	5001	Keystone	Test Point, TH, Miniature, Black	Keystone5001
TP7, TP11, TP13	3	White	5002	Keystone	Test Point, TH, Miniature, White	Keystone5002
U1	1		LM27403RTW	Texas Instruments	Synchronous Buck Controller with Temperature Compensated, RTW0024C	RTW0024C
FID1, FID2, FID3, FID4, FID5, FID6	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial

IMPORTANT NOTICE FOR TI REFERENCE DESIGNS

Texas Instruments Incorporated ("TI") reference designs are solely intended to assist designers (“Buyers”) who are developing systems that incorporate TI semiconductor products (also referred to herein as “components”). Buyer understands and agrees that Buyer remains responsible for using its independent analysis, evaluation and judgment in designing Buyer’s systems and products.

TI reference designs have been created using standard laboratory conditions and engineering practices. **TI has not conducted any testing other than that specifically described in the published documentation for a particular reference design.** TI may make corrections, enhancements, improvements and other changes to its reference designs.

Buyers are authorized to use TI reference designs with the TI component(s) identified in each particular reference design and to modify the reference design in the development of their end products. HOWEVER, NO OTHER LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE TO ANY OTHER TI INTELLECTUAL PROPERTY RIGHT, AND NO LICENSE TO ANY THIRD PARTY TECHNOLOGY OR INTELLECTUAL PROPERTY RIGHT, IS GRANTED HEREIN, including but not limited to any patent right, copyright, mask work right, or other intellectual property right relating to any combination, machine, or process in which TI components or services are used. Information published by TI regarding third-party products or services does not constitute a license 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.

TI REFERENCE DESIGNS ARE PROVIDED "AS IS". TI MAKES NO WARRANTIES OR REPRESENTATIONS WITH REGARD TO THE REFERENCE DESIGNS OR USE OF THE REFERENCE DESIGNS, EXPRESS, IMPLIED OR STATUTORY, INCLUDING ACCURACY OR COMPLETENESS. TI DISCLAIMS ANY WARRANTY OF TITLE AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT, QUIET POSSESSION, AND NON-INFRINGEMENT OF ANY THIRD PARTY INTELLECTUAL PROPERTY RIGHTS WITH REGARD TO TI REFERENCE DESIGNS OR USE THEREOF. TI SHALL NOT BE LIABLE FOR AND SHALL NOT DEFEND OR INDEMNIFY BUYERS AGAINST ANY THIRD PARTY INFRINGEMENT CLAIM THAT RELATES TO OR IS BASED ON A COMBINATION OF COMPONENTS PROVIDED IN A TI REFERENCE DESIGN. IN NO EVENT SHALL TI BE LIABLE FOR ANY ACTUAL, SPECIAL, INCIDENTAL, CONSEQUENTIAL OR INDIRECT DAMAGES, HOWEVER CAUSED, ON ANY THEORY OF LIABILITY AND WHETHER OR NOT TI HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, ARISING IN ANY WAY OUT OF TI REFERENCE DESIGNS OR BUYER’S USE OF TI REFERENCE DESIGNS.

TI reserves the right to make corrections, enhancements, improvements and other changes to its semiconductor products and services per JESD46, latest issue, and to discontinue any product or service per JESD48, latest issue. Buyers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. All semiconductor products are sold subject to TI’s terms and conditions of sale supplied at the time of order acknowledgment.

TI warrants performance of its components to the specifications applicable at the time of sale, in accordance with the warranty in TI’s terms and conditions of sale of semiconductor products. Testing and other quality control techniques for TI components are used to the extent TI deems necessary to support this warranty. Except where mandated by applicable law, testing of all parameters of each component is not necessarily performed.

TI assumes no liability for applications assistance or the design of Buyers’ products. Buyers are responsible for their products and applications using TI components. To minimize the risks associated with Buyers’ products and applications, Buyers should provide adequate design and operating safeguards.

Reproduction of significant portions of TI information in TI data books, data sheets or reference designs is permissible only if reproduction is without alteration and is accompanied by all associated warranties, conditions, limitations, and notices. TI is not responsible or liable for such altered documentation. Information of third parties may be subject to additional restrictions.

Buyer acknowledges and agrees that it is solely responsible for compliance with all legal, regulatory and safety-related requirements concerning its products, and any use of TI components in its applications, notwithstanding any applications-related information or support that may be provided by TI. Buyer represents and agrees that it has all the necessary expertise to create and implement safeguards that anticipate dangerous failures, monitor failures and their consequences, lessen the likelihood of dangerous failures and take appropriate remedial actions. Buyer will fully indemnify TI and its representatives against any damages arising out of the use of any TI components in Buyer’s safety-critical applications.

In some cases, TI components may be promoted specifically to facilitate safety-related applications. With such components, TI’s goal is to help enable customers to design and create their own end-product solutions that meet applicable functional safety standards and requirements. Nonetheless, such components are subject to these terms.

No TI components are authorized for use in FDA Class III (or similar life-critical medical equipment) unless authorized officers of the parties have executed an agreement specifically governing such use.

Only those TI components that TI has specifically designated as military grade or “enhanced plastic” are designed and intended for use in military/aerospace applications or environments. Buyer acknowledges and agrees that any military or aerospace use of TI components that have ***not*** been so designated is solely at Buyer's risk, and Buyer is solely responsible for compliance with all legal and regulatory requirements in connection with such use.

TI has specifically designated certain components as meeting ISO/TS16949 requirements, mainly for automotive use. In any case of use of non-designated products, TI will not be responsible for any failure to meet ISO/TS16949.

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
Copyright © 2015, Texas Instruments Incorporated