

PMP11753 REV C Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
BR1	1	GBU4K-E3/45	GBU4K-E3/45	Vishay-Semiconductor	Diode, Switching-Bridge, 800V, 4A, TH	GBU
C1	1	0.33uF	R46KI333000P2M	Kemet	CAP, EMI X2, 0.33 uF, 275 Vac, +/- 20%, TH	18x6x17.5mm, Pin Spacing 15mm
C2	1	330pF	C1608C0G1H331J	TDK	CAP, CERM, 330 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C3	1	47uF	EKXG401ELL470ML25S	United Chemi-Con	CAP, AL, 47 uF, 400 V, +/- 20%, TH	RCAP, 16x25mm
C4	1	0.1uF	C0603C104K3RACTU	Kemet	CAP, CERM, 0.1uF, 25V, +/-10%, X7R, 0603	0603
C5	1	1uF	12063C105KAT2A	AVX	CAP, CERM, 1uF, 25V, +/-10%, X7R, 1206	1206
C6	1	22pF	C1608C0G1H220J	TDK	CAP, CERM, 22 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C7	1	82uF	EKXG401ELL820MM25S	United Chemi-Con	CAP, AL, 82 uF, 400 V, +/- 20%, TH	18x25mm
C8	1	100uF	EEE-FK1E101P	Panasonic	CAP, AL, 100 uF, 25 V, +/- 20%, 0.26 ohm, SMD	SMT Radial E
C9	1	DNP	DNP	AVX	DNP	0805
C10, C16	2	1uF	08055C105KAT2A	AVX	CAP, CERM, 1uF, 50V, +/-10%, X7R, 0805	0805
C11	1	390uF	UPA1V391MPD6TD	Nichicon	CAP, AL, 390uF, 35V, +/-20%, 0.03 ohm, TH	10x18mm
C12	1	10pF	GRM21A5C2E100JW01D	MuRata	CAP, CERM, 10 pF, 250 V, +/- 5%, C0G/NP0, 0805	0805
C13	1	220pF	GRM31A7U3A221JW31D	MuRata	CAP, CERM, 220 pF, 1000 V, +/- 5%, U2J, 1206	1206
C14, C18	2	4700pF	VY2472M49Y5US63V7	Vishay-Bccomponents	CAP, CERM, 4700 pF, 440 V, +/- 20%, Y5U, TH, 12.5x5mm	TH, 12.5x5mm
C15, C17	2	680uF	UHW1V681MPD6	Nichicon	CAP, AL, 680uF, 35V, +/-20%, 0.019 ohm, TH	10x20mm
D1	1	ES1D-13-F	ES1D-13-F	Diodes Inc.	Diode, Ultrafast, 200V, 1A, SMA	SMA
D2	1	BAV70	BAV70-E3-08	Vishay-Semiconductor	Diode, Switching, 70 V, 0.25 A, AEC-Q101, SOT-23	SOT-23
D3, D4	2	75V	SMBJ75A-13-F	Diodes Inc.	Diode, TVS, Uni, 75 V, 600 W, SMB	SMB
D5	1	BAS316	BAS316,115	NXP Semiconductor	Diode, Ultrafast, 100V, 0.25A, SOD-323	SOD-323
D6	1	MURS160-13-F	MURS160-13-F	Diodes Inc.	Diode, Ultrafast, 600V, 1A, SMB	SMB
D7	1	MURS320T3G	MURS320T3G	ON Semiconductor	Diode, Ultrafast, 200 V, 3 A, SMC	SMC
D8	1	MBR20H150CTG	MBR20H150CTG	ON Semiconductor	Diode, Schottky, 150 V, 10 A, TH	TO-220AB
D100	1	15V	MMSZ4702-V	Vishay-Semiconductor	Diode, Zener, 15 V, 500 mW, SOD-123	SOD-123
D101, D102, D103, D104	4	13V	MMSZ4700-V	Vishay-Semiconductor	Diode, Zener, 13 V, 500 mW, SOD-123	SOD-123
F1	1	3.15A	39213150000	Littelfuse	Fuse, 3.15A, 250V, TH	8x8.5x4mm
HS1, HS2	2	1.5W @ 40°C	7173DG	Aavid Thermalloy	BOARD LEVEL HEATSINK .375" TO-220	
J1, J2	2		0395443002	Molex	Terminal Block, 5.08mm, 2x1, TH	Terminal Block, 5.08mm, 2x1, TH
L1	1	3.3mH	744822233	Würth Elektronik	Coupled inductor, 3.3 mH, 1 A, 0.12 ohm, +/- 30%, TH	14.7x13mm
L2	1	220uH	768772221	Würth Elektronik	Inductor, Shielded Drum Core, Metal Composite, 220 uH, 0.32 A, 0.6 ohm, TH	Dia 8x10mm
Q1	1	IPA60R330P6	IPA60R330P6	Infineon Technologies	MOSFET, N-CH, 600 V, 12 A, TO-220 FP	TO-220 FP
R1, R2	2	100k	RC1206FR-07100KL	Yageo America	RES, 100k ohm, 1%, 0.25W, 1206	1206
R3	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00k ohm, 1%, 0.1W, 0603	0603
R4	1	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100 ohm, 1%, 0.1W, 0603	0603
R5	1	4.70	ERJ-6RQF4R7V	Panasonic	RES, 4.70 ohm, 1%, 0.125W, 0805	0805
R6	1	29.4k	CRCW060329K4FKEA	Vishay-Dale	RES, 29.4 k, 1%, 0.1 W, 0603	0603
R7	1	23.7k	CRCW080523K7FKEA	Vishay-Dale	RES, 23.7 k, 1%, 0.125 W, 0805	0805
R8	1	3.90k	RC0603FR-073K9L	Yageo America	RES, 3.90k ohm, 1%, 0.1W, 0603	0603
R9	1	22.1	CRCW060322R1FKEA	Vishay-Dale	RES, 22.1, 1%, 0.1 W, 0603	0603
R10	1	4.75	CRCW06034R75FKEA	Vishay-Dale	RES, 4.75, 1%, 0.1 W, 0603	0603
R11, R14	2	22.1k	CRCW060322K1FKEA	Vishay-Dale	RES, 22.1 k, 1%, 0.1 W, 0603	0603
R12	1	7.32k	CRCW06037K32FKEA	Vishay-Dale	RES, 7.32 k, 1%, 0.1 W, 0603	0603
R13	1	0.33	CSRN2512FKR330	Stackpole Electronics Inc	RES, 0.33, 1%, 2 W, 2512	2512

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R15	1	4.75k	CRCW12064K75FKEA	Vishay-Dale	RES, 4.75 k, 1%, 0.25 W, 1206	1206
RT1	1	5 ohm	B57236S0509M	TDK	Thermistor NTC, 5 ohm, 20%, Disc_11.5mmx6mm	Disc_11.5mmx6mm
T1	1	730uH	750315924	Würth Elektronik	Transformer, 730 uH, TH	31.1x24mm
TP1, TP2	2	White	5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
U1	1	UCC28632DR	UCC28632DR	Texas Instruments	High-Power Flyback Controller with Primary-Side Regulation and Peak-Power Mode, D0007A	D0007A
V1	1	275Vac	B72214S0271K101	EPCOS Inc	Varistor, 275Vac, 430Vclamp, 4.5KA, TH	Disc, 14x5mm

IMPORTANT NOTICE FOR TI REFERENCE DESIGNS

Texas Instruments Incorporated ("TI") reference designs are solely intended to assist designers ("Designer(s)") who are developing systems that incorporate TI products. TI has not conducted any testing other than that specifically described in the published documentation for a particular reference design.

TI's provision of reference designs and any other technical, applications or design advice, quality characterization, reliability data or other information or services does not expand or otherwise alter TI's applicable published warranties or warranty disclaimers for TI products, and no additional obligations or liabilities arise from TI providing such reference designs or other items.

TI reserves the right to make corrections, enhancements, improvements and other changes to its reference designs and other items.

Designer understands and agrees that Designer remains responsible for using its independent analysis, evaluation and judgment in designing Designer's systems and products, and has full and exclusive responsibility to assure the safety of its products and compliance of its products (and of all TI products used in or for such Designer's products) with all applicable regulations, laws and other applicable requirements. Designer represents that, with respect to its applications, it has all the necessary expertise to create and implement safeguards that (1) anticipate dangerous consequences of failures, (2) monitor failures and their consequences, and (3) lessen the likelihood of failures that might cause harm and take appropriate actions. Designer agrees that prior to using or distributing any systems that include TI products, Designer will thoroughly test such systems and the functionality of such TI products as used in such systems. Designer may not use any TI products in life-critical medical equipment unless authorized officers of the parties have executed a special contract specifically governing such use. Life-critical medical equipment is medical equipment where failure of such equipment would cause serious bodily injury or death (e.g., life support, pacemakers, defibrillators, heart pumps, neurostimulators, and implantables). Such equipment includes, without limitation, all medical devices identified by the U.S. Food and Drug Administration as Class III devices and equivalent classifications outside the U.S.

Designers are authorized to use, copy and modify any individual TI reference design only in connection with the development of end products that include the TI product(s) identified in that reference design. HOWEVER, NO OTHER LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE TO ANY OTHER TI INTELLECTUAL PROPERTY RIGHT, AND NO LICENSE TO ANY TECHNOLOGY OR INTELLECTUAL PROPERTY RIGHT OF TI OR ANY THIRD PARTY 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 products 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 the reference design or other items described above 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 AND OTHER ITEMS DESCRIBED ABOVE ARE PROVIDED "AS IS" AND WITH ALL FAULTS. TI DISCLAIMS ALL OTHER WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, REGARDING THE REFERENCE DESIGNS OR USE OF THE REFERENCE DESIGNS, INCLUDING BUT NOT LIMITED TO ACCURACY OR COMPLETENESS, TITLE, ANY EPIDEMIC FAILURE WARRANTY AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT OF ANY THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

TI SHALL NOT BE LIABLE FOR AND SHALL NOT DEFEND OR INDEMNIFY DESIGNERS AGAINST ANY CLAIM, INCLUDING BUT NOT LIMITED TO ANY INFRINGEMENT CLAIM THAT RELATES TO OR IS BASED ON ANY COMBINATION OF PRODUCTS AS DESCRIBED IN A TI REFERENCE DESIGN OR OTHERWISE. IN NO EVENT SHALL TI BE LIABLE FOR ANY ACTUAL, DIRECT, SPECIAL, COLLATERAL, INDIRECT, PUNITIVE, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES IN CONNECTION WITH OR ARISING OUT OF THE REFERENCE DESIGNS OR USE OF THE REFERENCE DESIGNS, AND REGARDLESS OF WHETHER TI HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

TI's standard terms of sale for semiconductor products (<http://www.ti.com/sc/docs/stdterms.htm>) apply to the sale of packaged integrated circuit products. Additional terms may apply to the use or sale of other types of TI products and services.

Designer will fully indemnify TI and its representatives against any damages, costs, losses, and/or liabilities arising out of Designer's non-compliance with the terms and provisions of this Notice.

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
Copyright © 2016, Texas Instruments Incorporated