


**PMP11271 REV B Bill of Materials**

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C24	1	100pF	GRM1535C1H101JDD5D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0402	402
C18	1	220pF	C1608C0G1H221J	TDK	CAP, CERM, 220 pF, 50 V, +/- 5%, C0G/NP0, 0603	603
C4, C5, C7, C8	4	1000pF	C1608X7R2A102K	TDK	CAP, CERM, 1000pF, 100V, +/-10%, X7R, 0603	603
C16	1	3300pF	GRM188R71H332KA01D	MuRata	CAP, CERM, 3300 pF, 50 V, +/- 10%, X7R, 0603	603
C2, C3	2	0.01uF	C1608X7R2A103K	TDK	CAP, CERM, 0.01uF, 100V, +/-10%, X7R, 0603	603
C25	1	0.012uF	GRM188R71E123KA01D	MuRata	CAP, CERM, 0.012 uF, 25 V, +/- 10%, X7R, 0603	603
C19, C22	2	0.1uF	C1608X7R1H104K	TDK	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	603
C20, C26	2	1uF	C1608X7R1C105K	TDK	CAP, CERM, 1uF, 16V, +/-10%, X7R, 0603	603
C29, C30	2	22uF	C1608X5R1A226M080AC	TDK	CAP, CERM, 22 uF, 10 V, +/- 20%, X5R, 0603	603
C11, C23	2	0.1uF	C2012X7R2A104K	TDK	CAP, CERM, 0.1uF, 100V, +/-10%, X7R, 0805	805
C27, C28	0	DNP	C2012X7R1E474K	TDK	CAP, CERM, 0.47 uF, 25 V, +/- 10%, X7R, 0805	805
C31	0	DNP	GRM21A5C2E680JW01D	MuRata	CAP, CERM, 68 pF, 250 V, +/- 5%, C0G/NP0, 0805	805
C13, C14, C15	3	100uF	C3225X5R0J107M	TDK	CAP, CERM, 100uF, 6.3V, +/-20%, X5R, 1210	1210
C10	1	2.2uF	GRM32ER72A225KA35L	MuRata	CAP, CERM, 2.2uF, 100V, +/-10%, X7R, 1210	1210
C17	1	22uF	C3225X7R1C226K250AC	TDK	CAP, CERM, 22 uF, 16 V, +/- 10%, X7R, 1210	1210
C1, C6	2	1000pF	1812GC102KA1	AVX	CAP, CERM, 1000pF, 2000V, +/-10%, X7R, 1812	1812
C9, C21	2	2200pF	C4532X7R3D222K	TDK	CAP, CERM, 2200pF, 2000V, +/-10%, X7R, 1812	1812
C12	1	10uF	EEE-FK1K100P	Panasonic	CAP, AL, 10 uF, 80 V, +/- 20%, 2.4 ohm, SMD	SMT Radial E
D1, D6, D8	3		DFLS1100-7	Diodes Inc.	Diode, Schottky, 100 V, 1 A, PowerDI123	PowerDI123
D2, D3	2		HD01-T	Diodes Inc.	Diode, Switching-Bridge, 100 V, 0.8 A, MiniDIP	MiniDIP
D4, D5, D7	3		DFLU1200-7	Diodes Inc.	Diode, Superfast Rectifier, 200 V, 1 A, PowerDI123	PowerDI123
D9, D11	2		BAT54HT1G	ON Semiconductor	Diode, Schottky, 30 V, 0.2 A, SOD-323	SOD-323
D10	1	58V	SMAJ58A	Diodes Inc.	Diode, TVS, Uni, 58V, 400W, SMA	SMA
D12, D13	0	DNP	DFLS1100-7	Diodes Inc.	Diode, Schottky, 100 V, 1 A, PowerDI123	PowerDI123
J1, J2	2		1-406541-1	AMP	RJ-45, Right Angle, No LED, tab up	16.26x14.54x15.75
J3, J4, J5	3		ED555/2DS	On-Shore Technology	Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	7.0x8.2x6.5mm
L1, L2, L3, L4	4	220 ohm	MPZ1608S221A	TDK	Ferrite Bead, 220 ohm @ 100 MHz, 2.2 A, 0603	603
L5	1	10uH	ME3220-103KLB	Coilcraft	Inductor, Drum Core, Ferrite, 10 uH, 0.87 A, 0.43 ohm, SMD	ME3220
L6	1	1.5uH	XFL3012-152MEB	Coilcraft	Inductor, Shielded, Composite, 1.5 uH, 2.2 A, 0.06 ohm, SMD	3x1.2x3mm
Q1	1		CSD17579Q3A	Texas Instruments	MOSFET, N-CH, 30 V, 20 A, SON 3.3x3.3mm	SON 3.3x3.3mm
Q2	1		FDC86244	Fairchild Semiconductor	MOSFET, N-CH, 150 V, 2.3 A, SuperSOT-6	SuperSOT-6
Q3	1		MMBT3906	Fairchild Semiconductor	Transistor, PNP, 40V, 0.2A, SOT-23	SOT-23
Q4	0	DNP	MMBT3906	Fairchild Semiconductor	Transistor, PNP, 40V, 0.2A, SOT-23	SOT-23
R15	1	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.063 W, 0402	402
R29	0	DNP	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.063 W, 0402	402
R27	0	DNP	CRCW040210R0JNED	Vishay-Dale	RES, 10, 5%, 0.063 W, 0402	402
R11	1	100	CRCW0402100RFKED	Vishay-Dale	RES, 100, 1%, 0.063 W, 0402	402
R22	1	499	CRCW0402499RFKED	Vishay-Dale	RES, 499, 1%, 0.063 W, 0402	402
R20	1	649	CRCW0402649RFKED	Vishay-Dale	RES, 649, 1%, 0.063 W, 0402	402
R13	1	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, 0402	402
R23	1	2.00k	CRCW04022K00FKED	Vishay-Dale	RES, 2.00 k, 1%, 0.063 W, 0402	402
R26	1	3.24k	CRCW04023K24FKED	Vishay-Dale	RES, 3.24 k, 1%, 0.063 W, 0402	402
R21, R24, R25	3	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	402
R28	0	DNP	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	402
R16	1	20.0k	CRCW040220K0FKED	Vishay-Dale	RES, 20.0 k, 1%, 0.063 W, 0402	402
R17	1	37.4k	CRCW040237K4FKED	Vishay-Dale	RES, 37.4 k, 1%, 0.063 W, 0402	402
R18	1	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	402
R12	1	374k	CRCW0402374KFKED	Vishay-Dale	RES, 374 k, 1%, 0.063 W, 0402	402
R30	1	0	ERJ-3GEY0R00V	Panasonic	RES, 0, 5%, 0.1 W, 0603	603

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R7	1	10	CRCW060310R0JNEA	Vishay-Dale	RES, 10 ohm, 5%, 0.1W, 0603	603
R1, R2, R3, R4	4	75	CRCW060375R0FKEA	Vishay-Dale	RES, 75.0 ohm, 1%, 0.1W, 0603	603
R19	1	90.9	CRCW060390R9FKEA	Vishay-Dale	RES, 90.9 ohm, 1%, 0.1W, 0603	603
R10	1	4.99k	CRCW06034K99FKEA	Vishay-Dale	RES, 4.99k ohm, 1%, 0.1W, 0603	603
R8	1	24.9k	CRCW060324K9FKEA	Vishay-Dale	RES, 24.9 k, 1%, 0.1 W, 0603	603
R14	1	0.47	ERJ-6RQFR47V	Panasonic	RES, 0.47, 1%, 0.125 W, 0805	805
R6	1	20	CRCW080520R0JNEA	Vishay-Dale	RES, 20 ohm, 5%, 0.125W, 0805	805
R5	1	39k	CRCW080539K0JNEA	Vishay-Dale	RES, 39k ohm, 5%, 0.125W, 0805	805
R9	1	2.2	CRCW20102R20JNEF	Vishay-Dale	RES, 2.2, 5%, 0.75 W, 2010	2010
R31	0	DNP	CRCW201075R0JNEF	Vishay-Dale	RES, 75, 5%, 0.75 W, 2010	2010
T1	1		H2019FNLT	Pulse Engineering	Transformer, 350uH, SMT	358x236x500mil
T2	1		LDT0807-50	Linkcom Manufacturing Co.	Transformer, 70 uH, SMT	11.3x7.6mm
T3	0	DNP	760301107	Würth Elektronik	Transformer, Gate Drive, 650 uH, SMT	EP5 Gate Drive Transformer
U2	1		HMHA2801A	Fairchild Semiconductor	Optocoupler, 3.75kV RMS, SMT	Mini Flat Package
U1	1		TPS23753APW	Texas Instruments	IEEE 802.3-2005 PoE Interface and Isolated Converter Controller with Enhanced ESD Ride-Through, -40 to 125 degC, 14-pin SOP (PW14), Green (RoHS & no Sb/Br)	PW0014A
U3	1		TLV431AIDBV	Texas Instruments	LOW-VOLTAGE ADJUSTABLE PRECISION SHUNT REGULATOR, DBV0005A	DBV0005A
U4	1		TPS62082DSGR	Texas Instruments	Buck Step Down Regulator with 2.3 to 6 V Input and 3.3 V Output, -40 to 85 degC, 8-Pin WSON (DSG), Green (RoHS & no Sb/Br)	DSG0008A

## IMPORTANT NOTICE FOR TI DESIGN INFORMATION AND RESOURCES

Texas Instruments Incorporated ("TI") technical, application or other design advice, services or information, including, but not limited to, reference designs and materials relating to evaluation modules, (collectively, "TI Resources") are intended to assist designers who are developing applications that incorporate TI products; by downloading, accessing or using any particular TI Resource in any way, you (individually or, if you are acting on behalf of a company, your company) agree to use it solely for this purpose and subject to the terms of this Notice.

TI's provision of TI Resources 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 TI Resources. TI reserves the right to make corrections, enhancements, improvements and other changes to its TI Resources.

You understand and agree that you remain responsible for using your independent analysis, evaluation and judgment in designing your applications and that you have full and exclusive responsibility to assure the safety of your applications and compliance of your applications (and of all TI products used in or for your applications) with all applicable regulations, laws and other applicable requirements. You represent that, with respect to your applications, you have 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. You agree that prior to using or distributing any applications that include TI products, you will thoroughly test such applications and the functionality of such TI products as used in such applications. TI has not conducted any testing other than that specifically described in the published documentation for a particular TI Resource.

You are authorized to use, copy and modify any individual TI Resource only in connection with the development of applications that include the TI product(s) identified in such TI Resource. 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 regarding or referencing third-party products or services does not constitute a license to use such products or services, or a warranty or endorsement thereof. Use of TI Resources 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 RESOURCES ARE PROVIDED "AS IS" AND WITH ALL FAULTS. TI DISCLAIMS ALL OTHER WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, REGARDING TI RESOURCES OR USE THEREOF, 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 YOU AGAINST ANY CLAIM, INCLUDING BUT NOT LIMITED TO ANY INFRINGEMENT CLAIM THAT RELATES TO OR IS BASED ON ANY COMBINATION OF PRODUCTS EVEN IF DESCRIBED IN TI RESOURCES 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 TI RESOURCES OR USE THEREOF, AND REGARDLESS OF WHETHER TI HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

You agree to fully indemnify TI and its representatives against any damages, costs, losses, and/or liabilities arising out of your non-compliance with the terms and provisions of this Notice.

This Notice applies to TI Resources. Additional terms apply to the use and purchase of certain types of materials, TI products and services. These include; without limitation, TI's standard terms for semiconductor products (<http://www.ti.com/sc/docs/stdterms.htm>), [evaluation modules](#), and [samples](http://www.ti.com/sc/docs/sampterm.htm) (<http://www.ti.com/sc/docs/sampterm.htm>).

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265  
Copyright © 2017, Texas Instruments Incorporated