

Variant: 001  
 Generated: 9/14/2018 11:23:17 AM  
 TID #: N/A



PMP21458 REV B Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1, C5	2	27uF	400BXW27MEFC10X25	Rubycon	CAP, AL, 27 uF, 400 V, +/- 20%, TH	RCAP, 10x25mm
2	C2, C19	2	4700pF	GRM21AR72E472KW01D	MuRata	CAP, CERM, 4700 pF, 250 V,+/- 10%, X7R, 0805	0805
3	C3	1	0.1uF	GRM55DR73A104KW01L	MuRata	CAP, CERM, 0.1 uF, 1000 V, +/- 10%, X7R, 2220	2220
4	C4	1	0.22uF	B32914A5224M000	TDK	CAP, Film, 0.22 uF, 1000 V, +/- 20%, TH	31.5x11mm
5	C6	1	100uF	UMA1E101MDD1TP	Nichicon	CAP, AL, 100 uF, 25 V, +/- 20%, TH	Dia 8mm
6	C7, C9	2	1uF	STD	STD	CAP, CERM, 25V, +/-10%, X7R, 0805	0805
7	C8	1	4700uF	6.3ZL4700MEFC12.5X30	Rubycon	CAP, AL, 4700 uF, 6.3 V, +/- 20%, TH	Dia 12.5mm
8	C10	1	0.01uF	GRM155R71E103KA01D	MuRata	CAP, CERM, 0.01 uF, 25 V,+/- 10%, X7R, 0402	0402
9	C11	1	22uF	GRM32ER71E226KE15L	MuRata	CAP, CERM, 22 uF, 25 V,+/- 10%, X7R, 1210	1210
10	C12	1	0.1uF	06035C104KAT2A	AVX	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
11	C13	1	0.056uF	GRM188R71H563KA93D	MuRata	CAP, CERM, 0.056 uF, 50 V,+/- 10%, X7R, 0603	0603
12	C14	1	0.1uF	GRM155R71E104KE14D	MuRata	CAP, CERM, 0.1 uF, 25 V,+/- 10%, X7R, 0402	0402
13	C15	1	0.015uF	GRM155R71C153KA01D	MuRata	CAP, CERM, 0.015 uF, 16 V,+/- 10%, X7R, 0402	0402
14	C16	1	0.1uF	GRM155R71C104KA88D	MuRata	CAP, CERM, 0.1 uF, 16 V,+/- 10%, X7R, 0402	0402
15	C17, C18	2	2200pF	DE2E3KY222MA2BM01	MuRata	CAP, CERM, 2200 pF, 250 V, +/- 20%, E, Radial D8x5mm	Radial D8x5mm
16	D1	1	800V	MB8S-TP	Micro Commercial Components	Diode, Switching-Bridge, 800 V, 0.5 A, TO269AA	TO269AA
17	D2	1	150V	STPS1150A	STMicroelectronics	Diode, Schottky, 150 V, 1 A, SMA	SMA
18	D3	1	1000V	US1M-13-F	Diodes Inc.	Diode, Ultrafast, 1000 V, 1 A, SMA	SMA
19	D4	1	100V	B3100-13-F	Diodes Inc.	Diode, Schottky, 100 V, 3 A, SMC	SMC
20	D5	1	200V	ES1D-13-F	Diodes Inc.	Diode, Ultrafast, 200 V, 1 A, SMA	SMA
21	D6	1	15V	BZT52C15T-7	Diodes Inc.	Diode, Zener, 15 V, 300 mW, SOD-523	SOD-523
22	J1	1		770W-X2/10	Qualtek Electronics Corporation	AC Receptacle, 2.5A, R/A, TH	AC, Reception 14.5x15x22 mm
23	J2, J3	2		ED120/2DS	On-Shore Technology	Terminal Block, 5.08 mm, 2x1, Brass, TH	2x1 5.08 mm Terminal Block
24	L1	1	220uH	768772221	Würth Elektronik	Inductor, Unshielded Drum Core, Powdered Iron, 220 uH,	Dia 8x10mm
25	L2	1	3.3mH	744822233	Würth Elektronik	Coupled inductor, 3300uH, 1.5 A	14.7x13mm
26	Q1	1	1000V	FQD2N100TM	Fairchild Semiconductor	MOSFET, N-CH, 1000 V, 1.6 A, DPAK	DPAK
27	R1, R3, R5, R6	4	1.5Meg	CRCW08051M50JNEA	Vishay-Dale	RES, 1.5 M, 5%, 0.125 W, 0805	0805
28	R2	1	0	5106	Keystone	RES, 0, 1%, 0.5 W, 0805	0805
29	R4	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
30	R7	1	100k	CRCW2512100KJNEG	Vishay-Dale	RES, 100 k, 5%, 1 W, AEC-Q200 Grade 0, 2512	2512
31	R8	1	68.1k	CRCW080568K1FKEA	Vishay-Dale	RES, 68.1 k, 1%, 0.125 W, 0805	0805
32	R9	1	2.00	CRCW08052R00FKEA	Vishay-Dale	RES, 2.00, 1%, 0.125 W, 0805	0805
33	R10	1	18.2k	CRCW040218K2FKED	Vishay-Dale	RES, 18.2 k, 1%, 0.063 W, 0402	0402
34	R11	1	0	MCR18EZPJ000	Rohm	RES, 0, 5%, 0.25 W, 1206	1206
35	R12	1	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
36	R13	1	787	CRCW0603787RFKEA	Vishay-Dale	RES, 787, 1%, 0.1 W, 0603	0603
37	R15	1	13.0k	CRCW080513K0FKEA	Vishay-Dale	RES, 13.0 k, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
38	R16	1	750	CRCW0402750RJNED	Vishay-Dale	RES, 750, 5%, 0.063 W, 0402	0402
39	R17	1	0	RMCF0603ZTOR00	Stackpole Electronics Inc	RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
40	R18	1	71.5k	CRCW040271K5FKED	Vishay-Dale	RES, 71.5 k, 1%, 0.063 W, 0402	0402
41	R19	1	4.02k	CRCW06034K02FKEA	Vishay-Dale	RES, 4.02 k, 1%, 0.1 W, 0603	0603
42	R20	1	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
43	R22	1	40.2k	CRCW040240K2FKED	Vishay-Dale	RES, 40.2 k, 1%, 0.063 W, 0402	0402
44	T1	1		750317658	Würth Elektronik	Transformer, 4450 uH, TH	EE16/8/5
45	TP1	1		5012	Keystone	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
46	TP2, TP4, TP7	3		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
47	TP3, TP5, TP6	3		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
48	U1	1		UCC28742DBVR	Texas Instruments	High-Efficiency Low-Cost Flyback Controller with Secondary-Side Regulation, DBV0006A (SOT-23-6)	DBV0006A
49	U2	1		FOD817A	Fairchild Semiconductor	Optocoupler, 5 kV, 80-160% CTR, TH	DIP, 4-Leads, Body 6.86x4.83mm, Pitch 2.54mm
50	U3	1		TLV431ACDBZR	Texas Instruments	Low Voltage Adjustable Precision Shunt Regulator, 39 ppm / degC, 15 mA, 0 to 70 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A
51	XF1	1	TR5	56000001009	Littelfuse	Fuse Holder, TR5, TH	TR5 Fuse Holder

## IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATASHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES "AS IS" AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, or other requirements. These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI's products are provided subject to TI's Terms of Sale ([www.ti.com/legal/termsofsale.html](http://www.ti.com/legal/termsofsale.html)) or other applicable terms available either on [ti.com](http://ti.com) or provided in conjunction with such TI products. TI's provision of these resources does not expand or otherwise alter TI's applicable warranties or warranty disclaimers for TI products.

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265  
Copyright © 2018, Texas Instruments Incorporated