

PMP22155 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C2, C3, C6	4	0.1uF	GRM32DR72E104KW01L	MuRata	CAP, CERM, 0.1 uF, 250 V, +/- 10%, X7R, 1210	1210
C4	1		EEHZS1H221P	Panasonic Electronic Compon	220uF 50V Aluminum Polymer Capacitor Radial, Can - SMD 13 mOhm 4000 Hrs @ 125°C	RADIAL_SMD
C5	1	4.7uF	CGA5L3X7R1H475K160AE	TDK	CAP, CERM, 4.7 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
C7	1	1uF	CGA4J3X7R1H105K125AB	TDK	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
C8	1	0.1uF	CGJ3E2X7R1C104K080AA	TDK	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C9	1	0.1uF	CGA3E2X7R1H104K080AA	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C11	1	10pF	GRM1885C1H100JA01D	MuRata	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C12	1	1uF	GCM188R71C105KA64J	MuRata	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C13	1	2700pF	GRM188R71H272KA01D	MuRata	CAP, CERM, 2700 pF, 50 V, +/- 10%, X7R, 0603	0603
C14	1	0.47uF	GCM188R71E474KA64D	MuRata	CAP, CERM, 0.47 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
D1, D2, D3, D4	4	200V	DFLU1200-7	Diodes Inc.	Diode, Superfast Rectifier, 200 V, 1 A, AEC-Q101, PowerDI123	PowerDI123
D5	1	30V	BAT54LP-7	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, 1.00x0.50x0.60mm	1.00x0.50x0.60mm
D6	1	4.7V	MMSZ4688T1G	ON Semiconductor	Diode, Zener, 4.7 V, 500 mW, SOD-123	SOD-123
J1, J2	2		ED555/2DS	On-Shore Technology	Terminal Block, 3.5mm Pitch, 2x1, TH	7.0x8.2x6.5mm
L1	1	4.7uH	XEL6060-472MEB	Coilcraft	Inductor, Shielded, Composite, 4.7 uH, 11.4 A, 0.01502 ohm, AEC-Q200 Grade 1, SMD	6.36x6.56mm
Q1	1	250V	IPD5N25S3430ATMA1	Infineon Technologies	MOSFET, N-CH, 250 V, 5 A, AEC-Q101, DPAK	DPAK
R1, R3	2	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R2	1	60.4k	CRCW060360K4FKEA	Vishay-Dale	RES, 60.4 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R4	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R5, R12	2	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R6, R8, R10	3	511k	CRCW0603511KFKEA	Vishay-Dale	RES, 511 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R7	1	45.3k	CRCW060345K3FKEA	Vishay-Dale	RES, 45.3 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R9	1	10.2k	CRCW060310K2FKEA	Vishay-Dale	RES, 10.2 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R11	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R13	1	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R14	1	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R15	1	88.7k	CRCW060388K7FKEA	Vishay-Dale	RES, 88.7 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R16	1	0.02	CSR1206FK20L0	Stackpole Electronics Inc	RES, 0.02, 1%, 0.5 W, 1206	1206
R17	1	6.49k	CRCW06036K49FKEA	Vishay-Dale	RES, 6.49 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
TP1, TP3, TP6	3		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
TP2, TP5	2		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
TP4, TP8	2		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
TP7	1		5013	Keystone	Test Point, Multipurpose, Orange, TH	Orange Multipurpose Testpoint
TP9	1		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
U1	1		LM5155QDSSTQ1	Texas Instruments	Automotive Grade 2.2-MHz Wide Input Non-synchronous Boost Controller, DSS0012C (WSON-12)	DSS0012C
U2	1		TLV314QDBVRQ1	Texas Instruments	3-MHz, Low-Power, Internal EMI Filter, RRIO, Operational Amplifier, DBV0005A (SOT-23-5)	DBV0005A
C10	0	10pF	GRM1885C1H100JA01D	MuRata	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603

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) or other applicable terms available either on 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 © 2020, Texas Instruments Incorporated