

PMP23649 REV B Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
PCB1	1		PMP23649	Any	Printed Circuit Board	
C1	1	0.1uF	GRM188R72A104KA35D	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0603	0603
C2	1	100µF	HHXD630ARA101MJA0G	Chemi-Con	100 µF 63 V Aluminum - Polymer Capacitors Radial, Can - SMD 30mOhm 10000 Hrs @ 105°C	SMT_CAP_10MM3_10MM3
C3, C5	2		GRM32EC72A106KE05L	Murata	10µF ±10% 100V Ceramic Capacitor X7S 1210 (3225 Metric)	1210
C4, C7	2	2.2uF	GRM188R61C225KAAD	MuRata	CAP, CERM, 2.2 uF, 16 V, +/- 10%, X5R, 0603	0603
C6	1	470pF	06031C471JAT2A	AVX	CAP, CERM, 470 pF, 100 V, +/- 5%, X7R, 0603	0603
C8	1	220pF	GRM188R71H221KA01D	MuRata	CAP, CERM, 220 pF, 50 V, +/- 10%, X7R, 0603	0603
C9	1	0.022uF	GRM188R71H223KA01D	MuRata	CAP, CERM, 0.022 uF, 50 V, +/- 10%, X7R, 0603	0603
C10	1	33pF	GRM1885C1H330JA01D	MuRata	CAP, CERM, 33 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C11	1	4700pF	C1210C472KGRACU	Kemet	CAP, CERM, 4700 pF, 2000 V, +/- 10%, X7R, 1210	1210
C12	1	60nF	CKC33C603KGGLCAUTO	KEMET	0.06 µF ±10% 2000V (2kV) Ceramic Capacitor C0G, NP0 3640 (9110 Metric)	3640
C101	1	100pF	CL21C101JECNNWC	Samsung Electro-Mechanics	CAP, CERM, 100 pF, 250 V, +/- 5%, C0G/NP0, 0805	0805
D1	1	100V	1N4148WFL-G3-08	Vishay-Semiconductor	Diode, Switching, 100 V, 0.15 A, SOD-123FL	SOD-123FL
D2	1		GAP3SLT33-214	GeneSiC Semiconductor	Rectifier Diode Schottky SiC 3.3KV 0.3A 2-Pin SMB	DO-214AA
J1	1		ED120/2DS	On-Shore Technology	Terminal Block, 5.08 mm, 2x1, Brass, TH	2x1 5.08 mm Terminal Block
J2, J3	2		PEC03SAAN	Sullins Connector Solutions	Header, 100mil, 3x1, Tin, TH	Header, 3 PIN, 100mil, Tin
Q2	1	250V	SI7190ADP-T1-GE3	Vishay-Semiconductor	MOSFET, N-CH, 250 V, 18.4 A, PowerPAK SO-8	PowerPAK SO-8
R1, R2	2	10	CRCW060310R0JNEA	Vishay-Dale	RES, 10, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R3	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R4	1	4.99k	CRCW06034K99FKEAC	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, 0603	0603
R5	1	95.3k	CRCW060395K3FKEA	Vishay-Dale	RES, 95.3 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R7, R10	2	0.03	WSLP0805R0300FEB	Vishay-Dale	RES, 0.03, 1%, 0.5 W, 0805	0805
R9	1	33k	RC1210JR-0733KL	Yageo	RES, 33 k, 5%, 0.5 W, 1210	1210
R11	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R12	1	15.0k	CRCW060315K0FKEA	Vishay-Dale	RES, 15.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R13	1	27.4k	CRCW060327K4FKEA	Vishay-Dale	RES, 27.4 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R14	1	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R15	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R101	1	100	RC1210JR-07100RL	Yageo	RES, 100, 5%, 0.5 W, 1210	1210
RN1	1		RES60A500QDWVRQ1	Texas Instruments	Automotive, 1700-V, Precision Resistive Divider	SOIC8
T1	1		AF2556-DL	Coilcraft	Flyback Transformer	PTH_XFRMR_33MM 5_26MM0
TP1, TP3	2		5010	Keystone Electronics	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
TP2, TP4	2		5011	Keystone Electronics	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
U1	1		LM5156HPWPR	Texas Instruments	2.2-MHz Wide VIN 65-V Non-synchronous Boost/SEPIC/Flyback Controller with 150°C Junction Temperature	TSSOP14
H1, H2, H3, H4	0		4820	Keystone		1 inch Nylon Hex Standoff
Q1	0	250V	SI7190ADP-T1-GE3	Vishay-Semiconductor	MOSFET, N-CH, 250 V, 18.4 A, PowerPAK SO-8	PowerPAK SO-8
R6	0	0.03	WSLP0805R0300FEB	Vishay-Dale	RES, 0.03, 1%, 0.5 W, 0805	0805
R8	0	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
------------	----------	-------	------------	--------------	-------------	------------------

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, regulatory 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 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](#), [TI's General Quality Guidelines](#), 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. Unless TI explicitly designates a product as custom or customer-specified, TI products are standard, catalog, general purpose devices.

TI objects to and rejects any additional or different terms you may propose.

Copyright © 2026, Texas Instruments Incorporated

Last updated 10/2025