

PMP40543 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1, C15	2	100pF	GCM1885C2A101JA16D	MuRata	CAP, CERM, 100 pF, 100 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0603	0603
C2, C4, C5, C12, C16, C18, C19, C26	8	0.1uF	CGA2B3X7R1E104K050BB	TDK	CAP, CERM, 0.1 µF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
C3, C17	2	2.2uF	GRT155R61E225KE13D	MuRata	CAP, CERM, 2.2 uF, 25 V, +/- 10%, X5R, AEC-Q200 Grade 3, 0402	0402
C6, C7, C20, C21	4	22uF	GRT31CR61E226KE01L	MuRata	CAP, CERM, 22 uF, 25 V, +/- 10%, X5R, AEC-Q200 Grade 3, 1206	1206
C8, C22	2	10uF	GRM21BC81C106KA73L	MuRata	CAP, CERM, 10 µF, 16 V, +/- 10%, X6S, 0805	0805
C9, C23, C27, C28, C29	5	10uF	CGA5L1X7R1H106K160AC	TDK	CAP, CERM, 10 µF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
C10, C24	2	0.1uF	CGA3E2X7R1H104K080AA	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C11, C13, C14, C25	4	0.22uF	C1005X5R1E224M050BC	TDK	CAP, CERM, 0.22 uF, 25 V, +/- 20%, X5R, 0402	0402
J1	1		1715721	Phoenix Contact	Terminal Block, 5.08 mm, 2x1, TH	2POS Terminal Block
J2	1		632723300011	Würth Elektronik	Connector, Receptacle, USB Type C, R/A	Connector, Receptacle, USB Type C, R/A, THT/SMT
J3	1		614 104 150 121	Würth Elektronik	Connector, Receptacle, USB Type A, R/A, Bottom Mount TH	Connector, Receptacle, USB Type A, TH
L1, L2	2	10uH	XAL6060-103MEB	Coilcraft	Inductor, Shielded, Composite, 10 µH, 7 A, 0.02982 ohm, AEC-Q200 Grade 1, SMD	IND_6.4x6.1x6.6
L3	1	1.2uH	XAL4020-122MEB	Coilcraft	Inductor, Shielded, Composite, 1.2 µH, 7.9 A, 0.0195 ohm, AEC-Q200 Grade 1, SMD	4x2.1x4mm
PCB	1		PMP40543	Any	Printed Circuit Board	
Q1, Q2	2	60V	BSS138WH6327XTSA1	Infineon Technologies	MOSFET, N-CH, 60 V, 0.28 A, AEC-Q101, SOT-323	SOT-323
R1, R19	2	10.0	ERJ-8ENF10R0V	Panasonic	RES, 10.0, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R2, R20, R33	3	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
R3, R21	2	0.015	CSR1206FK15L0	Stackpole Electronics Inc	RES, 0.015, 1%, 0.5 W, 1206	1206
R4, R22	2	301	CRCW0402301RFKED	Vishay-Dale	RES, 301, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R5, R23	2	49.9k	ERJ-2RKF4992X	Panasonic	RES, 49.9 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
R6, R24	2	4.70k	ERJ-2RKF4701X	Panasonic	RES, 4.70 k, 1%, 0.1 W, 0402	0402
R7, R25	2	10.0k	AC0402FR-0710KL	Yageo America	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R8, R9, R10, R26, R28	5	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R11	1	28.0k	CRCW040228K0FKED	Vishay-Dale	RES, 28.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R12, R30	2	21.0k	CRCW040221K0FKED	Vishay-Dale	RES, 21.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R13, R31	2	2.74k	CRCW04022K74FKED	Vishay-Dale	RES, 2.74 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R16	1	5.1k	CRCW04025K10JNED	Vishay-Dale	RES, 5.1 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R18, R34	2	13.0k	CRCW040213K0FKED	Vishay-Dale	RES, 13.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R29	1	51.0k	ERJ-2RKF5102X	Panasonic	RES, 51.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
R35, R36	2	1.00	ERJ-6RQF1R0V	Panasonic	RES, 1.00, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
RT1, RT2	2	470k	NCP15WM474J03RC	MuRata	Thermistor NTC, 470k ohm, 5%, 0402	0402
U1, U2	2		TPS25833QWRHBRQ1	Texas Instruments	USB Type-C and BC1.2 5V 3.5A Output, 36V Input Synchronous Buck with Cable Compensation, RHB0032R (VQFN-32)	RHB0032R

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
R14, R15, R32	0	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
R17	0	5.1k	CRCW04025K10JNED	Vishay-Dale	RES, 5.1 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R27	0	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402

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 © 2019, Texas Instruments Incorporated