

Variant: 001
 Generated: 8/17/2020 5:15:34 PM
 TID #: N/A



PMP40725 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1	1	10uF	CGA5L1X7R1H106K160AC	TDK	CAP, CERM, 10 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
2	C2, C17, C18	3	10uF	UMJ325KB7106MMHP	Taiyo Yuden	CAP, CERM, 10 uF, 50 V, +/- 20%, X7R, AEC-Q200 Grade 1, 1210	1210
3	C3, C7	2	3300pF	C0603X332K5RACTU	Kemet	CAP, CERM, 3300 pF, 50 V, +/- 10%, X7R, 0603	0603
4	C4, C6	2	2.2uF	UMJ316AB7225KLHT	Taiyo Yuden	CAP, CERM, 2.2 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
5	C5	1	4.7uF	GRM31CR71H475KA12L	MuRata	CAP, CERM, 4.7 uF, 50 V, +/- 10%, X7R, 1206	1206
6	C8, C24	2	2200pF	GRM1885C1H222JA01D	MuRata	CAP, CERM, 2200 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
7	C9, C11, C12, C16, C19, C23	6	0.1uF	C0603C104K5RACAUTO	Kemet	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
8	C10	1	2.2uF	885012106018	Würth Elektronik	CAP, CERM, 2.2 uF, 16 V, +/- 20%, X5R, 0603	0603
9	C13, C14, C15	3	22uF	GCM31CR71A226KE02	MuRata	CAP, CERM, 22 uF, 10 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
10	C20	1	0.1uF	C1206C104M5RACTU	Kemet	CAP, CERM, 0.1 uF, 50 V, +/- 20%, X7R, 1206	1206
11	C21	1	0.22uF	CL10B224K08VPNC	Samsung	CAP, CERM, 0.22 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
12	C22	1	1uF	08055C105KAT2A	AVX	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0805	0805
13	C25	1	22uF	EEE-FK1H220P	Panasonic	CAP, AL, 22 uF, 50 V, +/- 20%, 0.88 ohm, AEC-Q200 Grade 2, SMD	SMT Radial D
14	C26, C27	2	2200pF	GRM188R71H222KA01D	MuRata	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	0603
15	D1	1	NC	150060RS75000	Würth Elektronik	LED, Red, SMD	LED_0603
16	D2	1	40V	B540C-13-F	Diodes Inc.	Diode, Schottky, 40 V, 5 A, SMC	SMC
17	J1	1		1757242	Phoenix Contact	Header (Shrouded), 5.08 mm, 2x1, Tin, R/A, TH	Header, 5.08 mm, 2x1, R/A, TH
18	J2	1		48037-1000	Molex	Connector, Plug, USB Type A, R/A, Top Mount SMT	USB Type A right angle
19	J3	1		896-43-004-00-000000	Mill-Max	Connector, Receptacle, USB TYPE A, R/A, Top Mount SMT	USB TYPE A CONNECTOR RECEPTACLE 4POS SMD
20	L1, L2, L6	3	880 ohm	74279252	Würth Elektronik	Ferrite Bead, 880 ohm @ 100 MHz, 4 A, 1812	1812
21	L3	1	8.2uH	XAL5050-822MEB	Coilcraft	Inductor, Shielded, Composite, 8.2 uH, 5.6 A, 0.03 ohm, SMD	XAL5050
22	L4, L5	2	1uH	XAL5030-102MEB	Coilcraft	Inductor, Shielded, CAPPR7.5-16X20, 1 uH, 11.1 A, 0.0094 ohm, AEC-Q200 Grade 1, SMD	5.3x31.x5.5mm
23	Q1	1	20V	CSD85312Q3E	Texas Instruments	MOSFET, 2-CH, N-CH, 20 V, 12 A, DPA0008A (VSON-8)	DPA0008A
24	R1	1	49.9k	CRCW060349K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
25	R2, R8	2	15k	CRCW060315K0JNEA	Vishay-Dale	RES, 15 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
26	R3	1	2.00	MCT06030C2008FP500	Vishay/Beyschlag	RES, 2.00, 1%, 0.125 W, 0603	0603
27	R4	1	0.015	WSL2010R0150FEA	Vishay-Dale	RES, 0.015, 1%, 0.5 W, 2010	2010
28	R5	1	20k	CRCW060320K0JNEA	Vishay-Dale	RES, 20 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
29	R6	1	301	CRCW0603301RFKEA	Vishay-Dale	RES, 301, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
30	R7, R15	2	4.99k	CR0603-FX-4991ELF	Bourns	RES, 4.99 k, 1%, 0.1 W, 0603	0603
31	R9	1	10k	CRCW060310K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
32	R10	1	100	ERJ-6GEYJ101V	Panasonic	RES, 100, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
33	R11	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
34	R12	1	0	RMCF0603ZT0R00	Stackpole Electronics Inc	RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
35	R13	1	0	RC1206JR-070RL	Yageo America	RES, 0, 5%, 0.25 W, 1206	1206
36	R14	1	5.62k	CRCW06035K62FKEA	Vishay-Dale	RES, 5.62 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
37	R16, R17	2	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
38	R18	1	39.2k	CRCW060339K2FKEA	Vishay-Dale	RES, 39.2 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
39	R25	1	5.1k	CRCW06035K10JNEA	Vishay-Dale	RES, 5.1 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
40	RT1	1	NC	NCP18WM474J03RB	MuRata	Thermistor NTC, 470k ohm, 5%, 0603	0603
41	U1	1		TPS25846QWRHBTQ1	Texas Instruments	USB Type-A BC1.2 5-V 3.5-A Output, 36-V Input Synchronous Buck With Cable Compensation, RHB0032R (VQFN-32)	RHB0032R

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