

PMP21781 REV 1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
I PCB	1		PMP21781	Any	Printed Circuit Board	
C1	1	330uF	EMZS350ARA331MHA0G	Chemi-Con	CAP, AL, 330 μ F, 35 V, +/- 20%, 0.08 ohm, AEC-Q200 Grade 2, SMD	D8xL10mm
C2	1	4.7uF	CGA5L3X7R1H475K160AE	TDK	CAP, CERM, 4.7 μ F, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206	1206
C3, C4, C5	3	1uF	GRM55DR72E105KW01L	MuRata	CAP, CERM, 1 μ F, 250 V, +/- 10%, X7R, 2220	2220
C6	1	3.3uF	CGA4J1X7R1E335K125AC	TDK	CAP, CERM, 3.3 μ F, 25 V, +/- 10%, X7R, 0805	0805
C7, C10	2	100pF	CGA2B2C0G1H101J050BA	TDK	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0402	0402
C8	1	0.47uF	GCM188R71C474KA55D	MuRata	CAP, CERM, 0.47 μ F, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C9	1	0.1uF	GCM155R71C104KA55D	MuRata	CAP, CERM, 0.1 μ F, 16 V, +/- 10%, X7R, 0402	0402
C12	1	0.22uF	GCM188R71H224KA64D	MuRata	CAP, CERM, 0.22 μ F, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
Cx1	1	0.015uF	CGA2B2X7R1E153K050BA	TDK	CAP, CERM, 0.015 μ F, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
D1	1	200V	NRVUS220VT3G	ON Semiconductor	Diode, Ultrafast, 200 V, 2 A, AEC-Q101, SMB	SMB
H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
L1	1	220uH	MSS1278T-224KLB	Coilcraft	Inductor, Shielded Drum Core, Ferrite, 220 uH, 1.6 A, 0.32 ohm, SMD	MSS1278T
Q1	1	200V	SQJ454EP-T1_GE3	Vishay-Siliconix	MOSFET, N-CH, 200 V, 13 A, AEC-Q101, PowerPAK_SO-8L	PowerPAK_SO-8L
R1	1	0	ERJ-8GEY0R00V	Panasonic	RES, 0, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R3	1	0	ERJ-3GEY0R00V	Panasonic	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R4	1	200k	ERJ-2RKF2003X	Panasonic	RES, 200 k, 1%, 0.1 W, 0402	0402
R5	1	19.6k	CRCW040219K6FKED	Vishay-Dale	RES, 19.6 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R6	1	47k	CRCW040247K0JNED	Vishay-Dale	RES, 47 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R7	1	1.40k	CRCW04021K40FKED	Vishay-Dale	RES, 1.40 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R8	1	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R9	1	49.9	ERJ-3EKF49R9V	Panasonic	RES, 49.9, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R10	1	0.012	KRL1632E-M-R012-F-T5	Susumu Co Ltd	RES, 0.012, 1%, 0.75 W, AEC-Q200 Grade 0, 1206	1206
R11	1	4.32Meg	CRCW12064M32FKEA	Vishay-Dale	RES, 4.32 M, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
R12	1	220k	RC0402FR-07220KL	Yageo America	RES, 220 k, 1%, 0.0625 W, 0402	0402
R13	1	154k	CRCW0402154KFKED	Vishay-Dale	RES, 154 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R14	1	11.0k	CRCW040211K0FKED	Vishay-Dale	RES, 11.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R15	1	33.2k	CRCW040233K2FKED	Vishay-Dale	RES, 33.2 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R16	1	49.9k	CRCW040249K9FKED	Vishay-Dale	RES, 49.9 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
TP1, TP10, TP12, TP14	4		5012	Keystone	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
TP2, TP3	2		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
TP4, TP5, TP6, TP7	4		1502-2	Keystone	Terminal, Turret, TH, Double	Keystone1502-2
TP8, TP9, TP13	3		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
TP11	1		5014	Keystone	Test Point, Multipurpose, Yellow, TH	Yellow Multipurpose Testpoint
U1	1		LM51551QDSSTQ1	Texas Instruments	Automotive Grade 2.2-MHz Wide Input Non-synchronous Boost Controller, DSS0012C (WSON-12)	DSS0012C
C11	0	1000pF	GCM155R71H102KA37D	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
D2	0	12V	MMSZ4699-HE3-08	Vishay-Semiconductor	Diode, Zener, 12 V, 500 mW, AEC-Q101, SOD-123	SOD-123
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
R2	0	0	ERJ-3GEY0R00V	Panasonic	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603

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