

PMP21842 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB100	1		PMP21842	Any	Printed Circuit Board	
2	C100	1	47uF	4501XW47MEFC16X25	Rubycon	CAP ALUM 47UF 20% 450V RADIAL	D16xL25mm
3	C104, C105	2	0.1uF	GRM43DR72J104KW01L	MuRata	CAP, CERM, 0.1uF, 630V, +/-10%, X7R, 1812	1812
4	C106, C107	2	0.01uF	06031C103JAT2A	AVX	CAP, CERM, 0.01 uF, 100 V, +/- 5%, X7R, 0603	0603
5	C108, C109, C110, C111, C117, C118, C119, C120, C121, C122	10	47uF	GRM32ER61C476KE15L	MuRata	CAP, CERM, 47 uF, 16 V, +/- 10%, X5R, 1210	1210
6	C112, C113, C114	3	180uF	RL81C181MDN1KX	Nichicon	CAP POLYMER 180UF 20% 16V T/H	D10x12.5mm
7	C123, C125	2	1uF	08053D105KAT2A	AVX	CAP, CERM, 1 uF, 25 V, +/- 10%, X5R, 0805	0805
8	C124	1	0.1uF	06033C104KAT2A	AVX	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	0603
9	C131	1	2200pF	DE1E3KX222MA4BL01	MuRata	CAP, CERM, 2200 pF, 250 V, +/- 20%, E, Cap, 7x12x9 mm	Cap, 7x12x9 mm
10	C132, C133, C134, C135, C136	5	8200pF	CGJ5L4C0G2H822J160AA	TDK	CAP CER 8200PF 500V C0G 1206	1206
11	C138	1	100pF	06033C101KAT2A	AVX	CAP, CERM, 100pF, 25V, +/-10%, X7R, 0603	0603
12	C141, C143	2	0.1uF	C0603C104K4RACTU	Kemet	CAP, CERM, 0.1uF, 16V, +/-10%, X7R, 0603	0603
13	C142, C144	2	2.2uF	GRM188R61C225KE15D	MuRata	CAP, CERM, 2.2 uF, 16 V, +/- 10%, X5R, 0603	0603
14	C901	1	220pF	06031C221KAT2A	AVX	CAP, CERM, 220pF, 100V, +/-10%, X7R, 0603	0603
15	C902	1	2.2uF	C0603C225K8PACTU	Kemet	CAP, CERM, 2.2uF, 10V, +/-10%, X5R, 0603	0603
16	C903	1	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1uF, 25V, +/-5%, X7R, 0603	0603
17	D100, D101	2	100V	BAS316,115	NXP Semiconductor	Diode, Ultrafast, 100 V, 0.25 A, SOD-323	SOD-323
18	D901	1	30V	BAT54S-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOT-23	SOT-23
19	J100, J101, J102, J103	4		575-4	Keystone	Standard Banana Jack, Uninsulated, 5.5mm	Keystone_575-4
20	J104	1		0448120024	Molex	Receptacle, 2.54mm, 6x1, Gold, TH	Receptacle, 2.54mm, 6x1, TH
21	J105	1		PBC02DAAN	Sullins Connector Solutions	Header, 2.54mm, 2x2, Gold, TH	Header, 2.54mm, 2x2, TH
22	J106	1		PBC03DAAN	Sullins Connector Solutions	Header, 100mil, 3x2, Gold, TH	Sullins 100mil, 2x3, 230 mil above insulator
23	J107	1		87758-4016	Molex	Header, 2mm, 20x2, Gold, TH	20x2 Header
24	Q100, Q101, Q102, Q105, Q106, Q107	6	40V	CSD18510Q5B	Texas Instruments	MOSFET, N-CH, 40 V, 42 A, DNK0008A (VSON-CLIP-8)	DNK0008A
25	Q108, Q109	2	200V	ZVN3320FTA	Diodes Incorporated	MOSFET N-CH 200V 60MA SOT23-3	SOT-23
26	R100, R101, R102, R103, R108, R110, R111, R112	8	1.00	CRCW04021R00FKED	Vishay-Dale	RES, 1.00, 1%, 0.063 W, 0402	0402
27	R104, R106	2	2.00k	CRCW06032K00FKEA	Vishay-Dale	RES, 2.00 k, 1%, 0.1 W, 0603	0603
28	R105, R107, R109	3	0.001	PMR50HZPFV1L00	Rohm	RES, 0.001, 1%, 1 W, 2010	2010
29	R113	1	124	CRCW0603124RFKEA	Vishay-Dale	RES, 124 ohm, 1%, 0.1W, 0603	0603
30	R114, R115	2	499k	CRCW1206499KFKEA	Vishay-Dale	RES, 499 k, 1%, 0.25 W, 1206	1206
31	R116, R117	2	20.0	CRCW060320R0FKEA	Vishay-Dale	RES, 20.0, 1%, 0.1 W, 0603	0603
32	R118, R119	2	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
33	R120, R121	2	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0k ohm, 1%, 0.1W, 0603	0603
34	R901	1	14.3k	CRCW060314K3FKEA	Vishay-Dale	RES, 14.3 k, 1%, 0.1 W, 0603	0603
35	R902	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
36	T100	1		60829	Payton	Transformer, TH	34x26mm
37	TP100, TP101, TP102	3		0312-0-15-15-34-27-10-0	Mill-Max	Pin Receptacle, .032-.046" .075" Dia, Gold, TH	Pin Receptacle
38	U100	1		LM20BIM7	Texas Instruments	2.4V, 10uA Temperature Sensor, 5-pin SC-70 Micro SMD	MAA05A
39	U101, U102	2		UCD7138DRS	Texas Instruments	UCD7138 Low Side Power MOSFET Driver with Body Diode Conduction Sensing	DRS0006A
40	C116, C126, C127, C128, C129, C130, C137	0	8200pF	CGJ5L4C0G2H822J160AA	TDK	CAP CER 8200PF 500V C0G 1206	1206
41	C139, C140	0	100pF	06033C101KAT2A	AVX	CAP, CERM, 100pF, 25V, +/-10%, X7R, 0603	0603
42	Q103, Q104	0	40V	CSD18510Q5B	Texas Instruments	MOSFET, N-CH, 40 V, 42 A, DNK0008A (VSON-CLIP-8)	DNK0008A