Variant: 001
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PMP41106 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1, C2	2	0.47uF	R46KI3470S0P0K	Kemet	CAP, Film, 0.47 µF, X2 275 VAC, +/- 10%, TH	18x8.5mm
2	C3, C7	2	4.7uF	C2012X7R1E475K125AB	TDK	CAP, CERM, 4.7 uF, 25 V, +/- 10%, X7R, 0805	0805
3	C4	1	2200pF	GRM188C3H222JA01D	MuRata	CAP, CERM, 2200 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
4	C5	1	1.2uF	ECW-FD2W125K	Panasonic Electronic Components	CAP, Film, 1.2 uF, 450 V, +/- 10%, TH	B32922_17.5mm
5	C6	1	1000pF	GRM1885C1H102FA01J	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 1%, C0G/NP0, 0603	0603
6	C8	1	0.68uF	C0603C105K3RACTU	Kemet	CAP, CERM, 0.68uF, 25 V, +/- 10%, X7R, 0603	0603
7	C9	1	270pF	GRM1885C1H271JA01D	MuRata	CAP, CERM, 270 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
8	C10	1	2.2uF	C3216X7R2E225K125AC	TDK	CAP, CERM, 2.2 uF, 50 V, +/- 10%, X7R, 0805	0805
9	C11	1	220uF	450HXG220MEFC5N25X40	Rubycon	CAP, AL, 220 uF, 450 V, +/- 20%, TH	D25x6.40mm
10	C12	1	0.47uF	GRM188R71E474KA12D	MuRata	CAP, CERM, 0.47 uF, 25 V, +/- 10%, X7R, 0603	0603
11	C13	1	220pF	C1005C0G1H221FD50BA	TDK	CAP, CERM, 220 pF, 50 V, +/- 1%, C0G/NP0, 0402	0402
12	C14	1	0.022uF	ECW-FE2J3HL	Panasonic	CAP, Film, 0.022 uF, 630 V, +/- 3%, TH	12.5x6.2mm
13	C15, C17	2	2.2uF	CGA4J1X7R1V225K125AC	TDK	2.2µF ±10% 35V Ceramic Capacitor X7R 0805 (2012 Metric)	0805
14	C16	1	2200pF	GRM155R61E222KA01D	MuRata	CAP, CERM, 2200 pF, 25 V, +/- 10%, X5R, 0402	0402
15	C18	1	2.2uF	08053C225KAT2A	AVX	CAP, CERM, 2.2 uF, 25 V, +/- 10%, X7R, 0805	0805
16	C19	1	1000pF	GRM155R72A102KA01D	MuRata	CAP, CERM, 1000 pF, 100 V, +/- 10%, X7R, 0402	0402
17	C20	1	3300pF	C0603C332K5RACTU	Kemet	CAP, CERM, 3300 pF, 50 V, +/- 10%, X7R, 0603	0603
18	C21	1	10000pF	04025C103JAT2A	AVX	CAP, CERM, 1000 pF, 50 V,+/- 5%, X7R, 0402	0402
19	C22, C23	2	0.022uF	ECW-H8223HA	Panasonic Electronic Components	CAP, Film, 0.022 uF, 800 V, +/- 3%, TH	15x7mm
20	C24	1	100pF	GRM31A5C2J101JW01D	MuRata	CAP, CERM, 100 pF, 630 V, +/- 5%, C0G/NP0, 1206	1206
21	C25	1	470pF	8.85012E+11	Wurth Elektronik	CAP, CERM, 470 pF, 50 V, +/- 10%, X7R, 0603	0603
22	C27	1	0.22uF	GRM188R71E224KA88D	MuRata	CAP, CERM, 0.22 uF, 25 V, +/- 10%, X7R, 0603	0603
23	C28	1	680pF	C0603C681J5GACTU	Kemet	CAP, CERM, 680 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
24	C29, C32, C35, C36, C43, C45, C47, C57	8	0.1uF	C0603X104K3RACTU	Kemet	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	0603
25	C30	1	2200pF	C921U222MVVDBA7317	Kemet	CAP, CERM, 2200 pF, X1 400 VAC(Y1 400 VAC, +/- 20%, Y5V, D9x L19mm	D9xL13mm
26	C31	1	0.01uF	C0603X103K5RACTU	Kemet	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0603	0603
27	C33	1	1000pF	C0603C102K3GACTU	Kemet	CAP, CERM, 1000 pF, 25 V, +/- 10%, C0G/NP0, 0603	0603
28	C34	1	470pF	C0603X471K5RACTU	Kemet	CAP, CERM, 470 pF, 50 V, +/- 10%, X7R, 0603	0603
29	C37, C38	2	100pF	CL21C101JECNNWC	Samsung Electro-Mechanics	CAP, CERM, 100 pF, 250 V,+/- 5%, C0G/NP0, 0805	0805
30	C39, C41	2	680uF	EEUFS1K681	Panasonic Electronic Components	CAP, AL, 680 µF, 80 V, +/- 20%, TH	D16xL25mm
31	C40	1	0.22uF	C1608X7R1E224K080AC	TDK	CAP, CERM, 0.22 uF, 25 V, +/- 10%, X7R, 0603	0603
32	C42	1	0.01uF	C0603X103K5RACTU	Kemet	CAP, CERM, 0.01 uF, 100 V, +/- 10%, X7R, 0603	0603
33	C44, C46	2	1uF	GRM31CR72A105KA01L	MuRata	CAP, CERM, 1 uF, 100 V, +/- 10%, X7R, 1206	1206
34	C48	1	22uF	25ML22MEFC5X5	Rubycon	CAP, AL, 22 uF, 25 V, +/- 20%, TH	RCAP, 5x5mm
35	C49	1	100uF	EEU-FM1E101	Panasonic	CAP, AL, 100 uF, 25 V, +/- 20%, 0.13 ohm, TH	8.3x11.2mm
36	C50	1	1uF	C1608X7R1E105K080AE	TDK	CAP, CERM, 1 uF, 25 V,+/- 10%, X7R, 0603	0603
37	C51, C53	2	470pF	08051A471JAT2A	AVX	CAP, CERM, 470 pF, 100 V, +/- 5%, C0G/NP0, 0805	0805
38	C52, C58	2	2200pF	GRM31BR72J222KW01L	MuRata	CAP, CERM, 2200 pF, 630 V, +/- 10%, X7R, 1206	1206
39	C54	1	220uF	EKZF250ELL221MH85D	Chemi-Con	CAP, AL, 220 uF, 25 V, +/- 20%, TH	D8xL11.5
40	C55, C56	2	1uF	GRM216R61E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X5R, 0805	0805
41	CY1, CY2	2	2200pF	DE6E3KJ222MN3A	MuRata	CAP, CERM, 2200 pF, 300 V, +/- 20%, E, TH, 2- Leads, Body 9x7mm, Pin Spacing 7.5mm	TH, 2- Leads, Body 9x7mm, Pin Spacing 7.5mm
42	D1	1	600V	GBJ2506-BP	Micro Commercial Components	Diode, P-N-Bridge, 600 V, 25 A, TH	Diode Bridge_TH
43	D2	1	250V	BAV23CLT1G	ON Semiconductor	Diode, Switching, 250 V, 0.4 A, SOT-23	SOT-23
44	D3	1	600V	1N5406	Vishay-Semiconductor	Diode, Switching-Bridge, 600 V, 3 A, TH	DO-201AD
45	D4	1	100V	1N4148W-7-F	Diodes Inc.	Diode, Ultrafast, 100 V, 0.15 A, SOD-123	SOD-123
46	D5	1	600V	C3D04060A	Cree	Diode, Schottky, 600 V, 4 A, TH	TO-220-F2
47	D6	1	5.1V	MM3Z5V1ST1G	ON Semiconductor	Diode, Zener, 5.1 V, 300 mW, SOD-323	SOD-323
48	D7, D8	2	30V	PMEG3010EGWJ	Nexperia	Diode, Schottky, 30 V, 1 A, AEC-Q101, SOD-123	SOD-123
49	D9	1	100V	ES1JAF	Fairchild Semiconductor	Diode, Ultrafast, 600 V, 1 A, AEC-Q101, SMAF	SMAF
50	D10	1	30V	BAT54AWT-TP	Micro Commercial Components	Diode, Schottky, 30 V, 0.2 A, SOT-323	SOT-323
51	D11, D12	2	200V	TST20L200CW C0G	Taiwan Semiconductor Corporation	Diode, Schottky, 200 V, 20 A, TH	TO-220AB
52	D13, D14, D15, D16	4	30V	BAT43WS-7-F	Diodes Inc.	Diode, Schottky, 30 V, 0.2 A, SOD-323	SOD-323
53	D17	1		MT6224-AHRG-A	Marktech Optoelectronics	LED GRN/RED DIFF SMM ROUND T/H	RADIAL
54	D18	1	5.6V	MM3Z5V6ST1G	ON Semiconductor	Diode, Zener, 5.6 V, 300 mW, SOD-323	SOD-323
55	D19	1	75V	1N4148WX-TP	Micro Commercial Components	Diode, Switching, 75 V, 0.15 A, SOD-323	SOD-323
56	D20, D22	2	200V	ES1D-13-F	Diodes Inc.	Diode, Ultrafast, 200 V, 1 A, SMA	SMA
57	D21	1	1000V	US1M-13-F	Diodes Inc.	Diode, Ultrafast, 1000 V, 1 A, SMA	SMA
58	D23	1	11V	BZX384-C11 115	NXP Semiconductor	Diode, Zener, 11 V, 300 mW, SOD-323	SOD-323
59	F1	1		0216008.MXEP	Littelfuse	Fuse, 10 A, 250 VAC, TH	Fuse, 20x5.2mm
60	H1	1		40mm*120mm			
61	H2	1		40mm*40mm			
62	I_OPTO	1		5012	Keystone Electronics	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
63	J1	1		1714968	Phoenix Contact	Terminal Block, 3x1, 6.35 mm, TH	19x21.5x12.5mm
64	J2	1		691216510002S	Wurth Elektronik	Receptacle, 5.08mm, 2x1, Brass, TH	Receptacle, 5.08mm, 2x1, TH
65	L2	1		YXBCM020013007C	YAXIN ELECTRONICS	8.3mH @ 10kHz 2 Line Common Mode Choke Through Hole DCR 12mOhm	PTH_CHOKE_12MM5 .25MM0
66	L3	1	7mH	7448040707	Wurth Elektronik	Coupled inductor, 7 mH, 7 A, 0.02 ohm, TH	18x28mm
67	L4	1	140uH	MAG-3001497	Bourns	PFC INDUCTOR	PTH12
68	L5	1	58uH	MAG-3001500	Bourns	LLC INDUCTOR	PTH12
69	Q1	1	600V	IPW60R080P7XKSA1	Infineon Technologies	MOSFET, N-CH, 600 V, 37 A, TO-247	TO-247
70	Q2	1	40 V	MMBT2222ALT1G	ON Semiconductor	Transistor, NPN, 40 V, 0.6 A, SOT-23	SOT-23
71	Q3	1	60 V	MMBT2907ALT1G	ON Semiconductor	Transistor, PNP, 60 V, 0.6 A, SOT-23	SOT-23
72	Q4	1	600V	IPD60R180P7SAUMA1	Infineon Technologies	MOSFET, N-CH, 600 V, 18 A, DPAK	DPAK
73	Q5	1	40 V	MMBT3906LT1G	ON Semiconductor	Transistor, PNP, 40 V, 0.2 A, SOT-23	SOT-23
74	Q6, Q11, Q14	3	40 V	MMBT3904LT1G	ON Semiconductor	Transistor, NPN, 40 V, 0.2 A, SOT-23	SOT-23
75	Q7, Q8	2	600V	IPA60R170CFD7XKSA1	Infineon Technologies	MOSFET, N-CH, 600 V, 8 A, TO-220FP	TO-220FP
76	Q9, Q10, Q12, Q13	4	60V	2N7002-7-F	Diodes Inc.	MOSFET, N-CH, 60 V, 0.17 A, SOT-23	SOT-23
77	Q15	1	40 V	2N4401-AP	Micro Commercial Components	Transistor, NPN, 40 V, 0.5 A, TO-92AP	TO-92AP
78	Q16, Q17	2	30 V	BC858C-7-F	Diodes Inc.	Transistor, PNP, 30 V, 0.1 A, SOT-23	SOT-23
79	R1, R2, R3	3	330k	RC1206FR-0733KL	Yageo America	RES, 330 k, 1%, 0.25 W, 1206	1206
80	R4, R28, R74	3	0	RC1206JR-070RL	Yageo America	RES, 0, 5%, 0.25 W, 1206	1206
81	R5	1	220	RC0603FR-07220RL	Yageo	RES, 220, 1%, 0.1 W, 0603	0603
82	R6	1	21.5k	RC0603FR-0721K5L	Yageo	RES, 21.5 k, 1%, 0.1 W, 0603	0603
83	R7	1	0.02	CSRN2512FK20L0	Stackpole Electronics Inc	RES, 0.02, 1%, 2 W, 2512	2512
84	R8, R20, R33, R34, R40, R42, R44, R52, R84	9	10.0k	RC0603FR-0710KL	Yageo	RES, 10.0 k, 1%, 0.1 W, 0603	0603
85	R9, R12, R13	3	3.3	RC1206FR-073R3L	Yageo America	RES, 3.30, 1%, 0.25 W, 1206	1206
86	R10	1	12.4k	ERJ-3EKF1242V	Panasonic	RES, 12.4 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
87	R11, R67, R70	3	10	RC0603FR-0710RL	Yageo	RES, 10.0, 1%, 0.1 W, 0603	0603
88	R14, R15, R16	3	1.00Meg	RC1206FR-071ML	Yageo America	RES, 1.00 M, 1%, 0.25 W, 1206	1206
89	R17	1	59.0k	RC0603FR-0759KL	Yageo	RES, 59.0 k, 1%, 0.1 W, 0603	0603
90	R19, R21, R22, R64	4	100k	RC0603FR-07100KL	Yageo	RES, 100 k, 1%, 0.1 W, 0603	0603
91	R23, R24	2	453k	RN73C1J453KBTD	TE Connectivity	453 kOhms ±0.1% 0.063W, 1/16W Chip Resistor 0603 (1608 Metric) Thin Film	0603
92	R25	1	150k	RMCF0603FT150K	Stackpole Electronics	150kΩ ±1% 0.1W 0603 Thick Film Chip Resistor AEC-Q200 compliant	0603
93	R26	1	470k	B57371V2474J060	TDK	NTC Thermistor 470k 0603 (1608 Metric)	0603
94	R27	1	2.2	ERJ-3RQFJR2V	Panasonic	RES, 2.20, 1%, 0.1 W, 0603	0603
95	R29, R30	2	22.1	RC0603FR-0722R1L	Yageo	RES, 22.1, 1%, 0.1 W, 0603	0603
96	R31	1	150	RC0603FR-07150RL	Yageo	RES, 150, 1%, 0.1 W, 0603	0603
97	R32, R35	2	340k	CRCW0603340KFKEA	Vishay-Dale	RES, 340 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
98	R36	1	51.0k	RC0603FR-0751KL	Yageo	RES, 51.0 k, 1%, 0.1 W, 0603	0603
99	R37	1	160k	CRCW0603160KFKEA	Vishay-Dale	RES, 160 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
100	R38	1	0	RC0603JR-070RL	Yageo	RES, 0, 5%, 0.1 W, 0603	0603
101	R39, R41, R56, R82	4	3.00k	RC0603FR-073KL	Yageo	RES, 3.00 k, 1%, 0.1 W, 0603	0603
102	R43	1	210k	RC0603FR-07210KL	Yageo	RES, 210 k, 1%, 0.1 W, 0603	0603
103	R45	1	6.34k	RC0603FR-076K34L	Yageo	RES, 6.34 k, 1%, 0.1 W, 0603	0603
104	R46	1	7.50k	RC0603FR-077K5L	Yageo	RES, 7.50 k, 1%, 0.1 W, 0603	0603
105	R47, R58	2	5.10k	RC0603FR-075K1L	Yageo	RES, 5.10 k, 1%, 0.1 W, 0603	0603
106	R48, R49, R50, R51, R75, R81	6	10	RC1206FR-0710RL	Yageo America	RES, 10.0, 1%, 0.25 W, 1206	1206
107	R53	1	68.0k	RC0603FR-0768KL	Yageo	RES, 68.0 k, 1%, 0.1 W, 0603	0603
108	R54	1	4.7k	RC0603JR-074K7L	Yageo	RES, 4.7 k, 5%, 0.1 W, 0603	0603
109	R55	1	191	RC0603FR-07191RL	Yageo	RES, 191, 1%, 0.1 W, 0603	0603
110	R57	1	3.30k	RC0603FR-073K3L	Yageo	RES, 3.30 k, 1%, 0.1 W, 0603	0603
111	R59	1	499	RC0603FR-07499RL	Yageo	RES, 499, 1%, 0.1 W, 0603	0603
112	R60	1	3.6k	RC0603JR-073K6L	Yageo	RES, 3.6 k, 5%, 0.1 W, 0603	0603
113	R61, R63	2	20	RC0603FR-0720RL	Yageo	RES, 20.0, 1%, 0.1 W, 0603	0603
114	R62	1	9.31k	CRCW06039K31FKEA	Vishay-Dale	RES, 9.31 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
115	R65	1	13.0k	CRCW060313K0FKEA	Vishay-Dale	RES, 13.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
116	R66, R83	2	1.00k	RC0603FR-071KL	Yageo	RES, 1.00 k, 1%, 0.1 W, 0603	0603
117	R68, R69	2	0.006	WSL12066L000FEA18	Vishay-Dale	RES, 0.006, 1%, 0.5 W, 1206	1206
118	R71, R72	2	S10	RC0603FR-07S10RL	Yageo	RES, S10, 1%, 0.1 W, 0603	0603
119	R73	1	3.60k	RC0603FR-073K6L	Yageo	RES, 3.60 k, 1%, 0.1 W, 0603	0603
120	R76	1	200k	RC1206FR-07200KL	Yageo America	RES, 200 k, 1%, 0.25 W, 1206	1206
121	R77	1	200	RC1206FR-07200RL	Yageo America	RES, 200, 1%, 0.25 W, 1206	1206
122	R78	1	1.80k	RC0603FR-071K8L	Yageo	RES, 1.80 k, 1%, 0.1 W, 0603	0603
123	R79	1	82.0k	RC0603FR-0782KL	Yageo	RES, 82.0 k, 1%, 0.1 W, 0603	0603
124	R80	1	30.0k	RC0603FR-0730KL	Yageo	RES, 30.0 k, 1%, 0.1 W, 0603	0603
125	R87	1	51k	RC0603JR-0751KL	Yageo	RES, 51 k, 5%, 0.1 W, 0603	0603
126	R88, R89, R90	3		KTR18EZPF3304	Rohm Semiconductor	3.3 MOhms ±1% 0.25W, 1/4W Chip Resistor 1206 (3216 Metric) Automotive AEC-Q200, High Voltage Thick Film	1206
127	R91	1	35.2k	RT0603BRD073K2L	Yageo America	RES, 35.2 k, 0.1%, 0.1 W, 0603	0603
128	RF1	1	47	EMC2-47R0	TT Electronics/IRC	RES, 47, 10%, 2 W, Axial resistor	Axial resistor
129	RV1	1	275V	S10K275E2	TDK	Varistor 275V RMS 10MM Radial, TH	10mm Radial
130	T1	1		MAG-3001499	Bourns	LLC TRANSFORMER	PTH_XFRMR_36MM0 .35MM0
131	T2	1		MAG-3001498	Bourns	FLYBACK TRANSFORMER	PTH_XFRMR_20MM5 .14MM2
132	U1	1		UCC28180DR	Texas Instruments	8-PIN CONTINUOUS CONDUCTION MODE (CCM) PFC CONTROLLER, D0008A (SOIC-8)	D0008A
133	U2	1		UCC256603DDBR	Texas Instruments	750kHz Wide VIN/VOUT Range LLC Controller Optimized for Light Load Efficiency	SOIC14
134	U3, U4	2		FOD817A	Fairchild Semiconductor	Optocoupler, 5 kV, 80-160% CTR, TH	DIP, 4-Leads, Body 6.86x4.83mm, Pitch 2.54mm
135	U5	1		TL431LIADBZR	Texas Instruments	Programmable Shunt Regulator with Optimized Reference Current, DBZ0003A (SOT-23-3)	DBZ0003A
136	U6	1		LMV393IDR	Texas Instruments	GENERAL-PURPOSE LOW-VOLTAGE COMPARATORS, D0008A (SOIC-8)	D0008A
137	U7	1		TL103WAIDR	Texas Instruments	Dual Operational Amplifier with Internal Reference, 3 to 32 V, -40 to 105 degC, 8-pin SOIC (D8), Green (RoHS & no Sb/Br)	D0008A
138	U8	1		INA180A2IDBVR	Texas Instruments	Low- and High-Side Measurement, Multichannel, Voltage Output, Current-Sense Amplifier, DBV0005A (SOT-5)	DBV0005A
139	U9	1		UCC28910DR	Texas Instruments	700V Flyback Switcher with Constant-Voltage Constant-Current and Primary-side Control, D0007A (SOIC-7)	D0007A
140	J3	0		705430001	Molex	Header(shrouded), 2.54mm, 2x1, Gold, TH	Header(shrouded), 2.54mm, 2x1, TH
141	J4	0		22284043	Molex	Header, 2.54mm, 4x1, Tin, TH	Header, 2.54mm, 4x1, TH
142	L1	0	33uH	744842932	Wurth Elektronik	Coupled inductor, 8.5 A, 0.0055 ohm, TH	18.5x14.5mm
143	R85	0	10.0k	RC1206FR-0710KL	Yageo America	RES, 10.0 k, 1%, 0.25 W, 1206	1206
144	R86	0	10.0k	RC0603FR-0710KL	Yageo	RES, 10.0 k, 1%, 0.1 W, 0603	0603