

PMP4302A
Bill of Materials

Item	Qty	Reference	Part Name	Description	Value	Manufacturer
3	1	D12	1N5406	DIODE, General Purpose, 600V, 3.0A	1N5406	Fairchild
4	1	L4	20CQ	Choke, 100uH	100uH	TDK
5	1	F1	3731200041	FUSE FAST-ACT 2.00A 250V UL TR5	2A/250V	Littelfuse / Wickmann
6	1	D4	8ETH06PBF	DIODE UFAST 600V 8A TO-220AC	8ETH06	IR
7	1	X1	A81-A600X	SURGE ARRESTER 600V GASTUBE 2PIN	A81-A600X	EPCOS
8	1	D48	B320A	Diode, Schottky Barrier Rectifier, 3-A, 20-V	B360B	Diodes
9	8	D2-3 D16-17 D40 D49-50 D53	BAS16	Diode, Switching, 150-mA, 75-V, 350mW	BAS16	NXP
10	8	D9 D14 D21 D30-33 D39	BAS16	DIODE SW 75V 215MA HS SOT23	BAS16	NXP
11	4	D34-37	BAT54	Diode, Schottky, 200-mA, 30-V	BAT54	NXP
12	1	T2	CN6808-A	Gate driver	1:01:01	CoilCraft
13	1	R85	CRCW0805-xxxx-F	Resistor, Chip, 1/10W, 1%	12K	Vishay
14	1	CT1	CS1100L	Current Transformer, 100:1	100:01:00	Coilcraft
15	1	C22	DE1E3KX222MN4AL01	CAP 250VAC, Y1, -25jâC ~ 85jâC, jÂ20%	2.2nF	MuRata
16	4	C4-7	DE2E3KY102MA2BM01	CAP 1000PF 250VAC E X1Y2 RAD	1nF	MuRata
17	2	T3-4	ECO2225SEO-XXXH014	Main Transformer 320uH	320uH	TDK
18	1	C8	ECQ-E6474KF	.47UF/630VDC METAL POLY CAP	0.47uF	Panasonic
19	3	C1-3	ECQ-U2A104MG	CAP .1UF 275VAC INTER SUPP X2	0.1uF	Panasonic
20	2	C10 C12	ECQE6104KF	.1UF/630VDC METAL POLY CAP	0.1 uF	Panasonic
21	2	C30-31	ECQE6822KF	.0082 UF/630VDC METAL POLY CAP	8.2nF	Panasonic
22	1	C53	EET-ED2W820CA	CAP 82UF 450V ELECT TS-ED	82uF/450V	Panasonic
23	1	C66	EEU-FC1E102	CAP 1000UF 25V ELECT FC RADIAL	1000uF/25V	Panasonic
24	4	C43-44 C51 C57	EEU-FC2A101	CAP 100UF 100V ELECT FC RADIAL	100uF/100V	Panasonic
25	3	E1 E3-4	ERZ-V14D471	MOV, SUR ABSORBER 14MM 470V 4500A ZNR	ERZ-V14D471	Panasonic
26	1	U9	FOD817A3S	OPTOCOUPLER PHOTOTRANS OUT 4-SMD	FOD817A3S	Fairchild
27	1	C25	GCM21BR71E104KA56L	CAP CER 0.1UF 25V X7R 0805	0.1uF	MuRata
28	9	3 C26 C32-33 C37 C50 C56 C63 C	GCM21BR71E105KA56L	CAP CER 1UF 25V X7R 0805	1uF	MuRata
29	4	C19-21 C23	GCM21BR71E105KA56L	CAP CER 1UF 25V X7R 0805	NC	MuRata
30	2	C28 C47	GCM32ER71E106KA57L	CAP CER 10UF 25V X7R 1210	10uF	MuRata
31	4	C34 C36 C46 C68	GRM2165C1H101JA01D	CAP CER 100PF 50V 5% C0G 0805	100pF	MuRata
32	2	C15 C67	GRM2165C1H102JA01D	CAP CER 1000PF 50V 5% C0G 0805	1000pF	MuRata
33	1	C41	GRM2165C1H102JA01D	CAP CER 1000PF 50V 5% C0G 0805	1nF	MuRata
34	1	C14	GRM2165C1H221JA01D	CAP CER 220PF 50V 5% C0G 0805	220pF	MuRata
35	1	C42	GRM2165C1H222JA01D	CAP CER 2200PF 50V 5% C0G 0805	2.2nF	MuRata
36	2	C18 C39	GRM2165C1H331JA01D	CAP CER 330PF 50V C0G 0805	330pF	MuRata
37	1	C40	GRM2165C1H471JA01D	CAP CER 470PF 50V 5% C0G 0805	470pF	MuRata
38	1	C27	GRM216R71H223KA01D	CAP CER 22000PF 50V 10% X7R 0805	22nF	MuRata
39	1	C11	GRM2195C2A470JZ01D	CAP CER 47PF 100V 5% C0G 0805	47pF	MuRata
40	1	C38	GRM219R71C224KA01D	CAP CER .22UF 16V 10% X7R 0805	0.22uF	MuRata
41	1	C16	GRM21BR71C225KA12L	CAP CER 2.2UF 16V X7R 0805	2.2uF	MuRata
42	7	C29 C35 C49 C52 C55 C79-80	GRM21BR71E104KA01L	CAP CER .1UF 25V 10% X7R 0805	0.1uF	MuRata

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43	1	C17	GRM21BR71H473KA01L	CAP CER 47000PF 50V 10% X7R 0805	47nF	muRata
44	1	C77	GRM32ER61C476ME15L	CAP CER 47UF 16V X5R 1210	47uF/16V	MuRata
45	2	C45 C48	GRM32ER72A225KA35L	CAP CER 2.2UF 100V X7R 1210	2.2uF/100V	MuRata
46	1	C65	GRM32ER7YA106KA12L	CAP CER 10UF 35V X7R 10% 1210	10uF/35V	MuRata
47	1	C64	GRM40yyyxxxKvv	Capacitor, Ceramic, vvV, [temp], [tol]	N/U	muRata
48	3	Q1 Q7-8	IPP60R190C6	MOSFET N-CH 600V 20.2A TO220	IPP60R190C6	Infineon
49	1	D1	KBU6J	Diode, IC BRIDGE RECT 6A 600V KBU	KBU6J	Vishay
50	4	R17 R19 R22 R26	LVR-3	Resistor, Metal Strip, 3W, x%	5	Vishay
51	1	Q10	MMBT3904LT1	TRANSISTOR HI-VOLT NPN SOT-23	MMBT3904LT1	NXP
52	1	Q12	MMBT3904LT1	TRANS GP SS NPN 40V SOT23	MMBT3904LT1	On Semi
53	3	Q3 Q5 Q11	MMBT3906LT1	TRANSISTOR SWITCHING PNP SOT-23	MMBT3906LT1	NXP
54	1	Q2	MMBT3906LT1	TRANSISTOR SWITCHING PNP SOT-23	NC	NXP
55	3	D46 D51-52	MMSZ18T1G	DIODE ZENER 18V 500MW SOD-123	18V	Onsemi
56	4	D5 D7 D10 D15	MMSZ5265BT1G	DIODE ZENER 62V 500MW SOD-123	62V	On Semi
57	1	D20	MMSZ7V5T1G	DIODE ZENER 5.1V 500MW SOD-123	5.1V	Onsemi
58	1	D18	MURA160T3G	Rectifier, SMD Ultrafast Power, 600V 1A	MURA160T3G	OnSemi
59	3	D19 D44-45	MURA160T3G	Rectifier, SMD Ultrafast Power, 600V 1A	MURA160T3G	On Semi
60	8	D22-29	MURS120T3	Diode, UltraFast Rectifier, 1-A, 200-V	MURS120T3	On Semi
61	1	R1	NTPAN3R0LDBK0	CURRENT LIMITER INRSH 3 OHM 5.4A	3R	MuRata
62	6	J8-13	PEC02SAAN	Header, Male 2-pin, 100mil spacing,	PEC02SAAN	Sullins
63	2	J4 J6	PEC10SAAN	Header, Male 10-pin, 100mil spacing,	PEC10SAAN	Sullins
64	1	L3	PFC25CQA-241K03B-01	PFC choke 240uH	240uH	TDK
65	1	T5	PG1104NL-MX1	Flyback transformer, 1.2mH	1.2mH	Pulse
66	2	L5-6	PLA10AN1522R0R2B	COMMON MODE CHOKE 1.5MH 2A T/H	1.5mH	MuRata
67	1	R64	RC0805FR-07100KL	RES 100.0K OHM 1/8W 1% 0805 SMD	100K	Yageo
68	3	R81 R83 R92	RC0805FR-07100KL	RES 100K OHM 1/8W 1% 0805 SMD	100K	Yageo
69	1	R50	RC0805FR-07100RL	RES 100 OHM 1/8W 1% 0805 SMD	NC	Yageo
70	1	R12	RC0805FR-0710KL	RES 10K OHM 1/8W 1% 0805 SMD	10K	Yageo
71	7	R8 R23 R34-35 R41 R63 R87	RC0805FR-0710KL	RES 10.0K OHM 1/8W 1% 0805 SMD	10K	Yageo
72	2	R33 R24	RC0805FR-0710KL	RES 10K OHM 1/8W 1% 0805 SMD	10K	Yageo
73	5	R3 R9 R45 R69 R91	RC0805FR-0710RL	RES 10.0 OHM 1/8W 1% 0805 SMD	10	Yageo
74	1	R38 R61 R59 R51 R28	RC0805FR-0715KL	RES 15.0K OHM 1/8W 1% 0805 SMD	15K	Yageo
75	1	R78	RC0805FR-07178KL	RES 178K OHM 1/8W 1% 0805 SMD	178K	Yageo
76	8	R57 R58 R60 R62	RC0805FR-0718KL	RES 18.0K OHM 1/8W 1% 0805 SMD	18K	Yageo
77	1	R43	RC0805FR-071K96L	RES 1.96K OHM 1/8W 1% 0805 SMD	1.96K	Yageo
78	1	R47	RC0805FR-071KL	RES 1K OHM 1/8W 1% 0805 SMD	1.1K	Yageo
79	1	R52	RC0805FR-071KL	RES 1K OHM 1/8W 1% 0805 SMD	1K	Yageo
80	1	R84	RC0805FR-071KL	RES 1.00K OHM 1/8W 1% 0805 SMD	1K	Yageo
81	1	R82	RC0805FR-0720KL	RES 20.0K OHM 1/8W 1% 0805 SMD	20K	Yageo
82	3	R4 R39-40	RC0805FR-0724KL	RES 24.0K OHM 1/8W 1% 0805 SMD	24K	Yageo
83	1	R7	RC0805FR-0724KL	RES 24K OHM 1/8W 1% 0805 SMD	24K	Yageo

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84	3	R77 R89-90	RC0805FR-072M2L	RES 2.20M OHM 1/8W 1% 0805 SMD	2.2M	Yageo
85	7	R5 R11 R37 R66-68 R76	RC0805FR-072R2L	RES 2.20 OHM 1/8W 1% 0805 SMD	2.2	Yageo
86	1	R42	RC0805FR-07300KL	RES 300.0K OHM 1/8W 1% 0805 SMD	300K	Yageo
87	8	R27 R29-31 R44 R46 R54 R56	RC0805FR-07316KL	RES 316K OHM 1/8W 1% 0805 SMD	316K	Yageo
88	1	R86	RC0805FR-0739KL	RES 39.0K OHM 1/8W 1% 0805 SMD	39K	Yageo
89	1	R6	RC0805FR-07470RL	RES 470 OHM 1/8W 1% 0805 SMD	470	Yageo
90	1	R65	RC0805FR-0747KL	RES 47.0K OHM 1/8W 1% 0805 SMD	47K	Yageo
91	4	R16 R18 R20 R25	RC0805FR-074K7L	RES 4.7K OHM 1/8W 1% 0805 SMD	4.7K	Yageo
92	1	R75	RC0805FR-074K7L	RES 4.70K OHM 1/8W 1% 0805 SMD	4.7K	Yageo
93	3	R49 R79-80	RC0805FR-0751KL	RES 51.0K OHM 1/8W 1% 0805 SMD	51K	Yageo
94	3	R15 R21 R32	RC0805FR-07560KL	RES 560K OHM 1/8W 1% 0805 SMD	560K	Yageo
95	1	R55	RC0805FR-0768RL	RES 68 OHM 1/8W 1% 0805 SMD	68	Yageo
96	1	R53	RC0805FR-0768RL	RES 68 OHM 1/8W 1% 0805 SMD	68	Yageo
97	1	R48	RC0805FR-076K8L	RES 6.80K OHM 1/8W 1% 0805 SMD	6.8K	Yageo
98	3	R10 R13-14	RC0805FR-07750KL	RES 750K OHM 1/8W 1% 0805 SMD	750K	Yageo
99	1	R70	RC0805FR-077K5L	RES 7.50K OHM 1/8W 1% 0805 SMD	7.5K	Yageo
100	1	R36	RWM0410R100JR15E1	RES WIREWOUND .10 OHM 3W	0.1	Vishay
101	1	R2	RWM0410R390JR15E1	RES WIREWOUND .39 OHM 3W	0.39	Vishay
102	1	D47	SMA6J130A-TR	TRANSIL 600W 130V UNIDIRECT SMA	SMA6J130A	ST
103	1	Q9	SPP04N80C3	MOSFET N-CH 800V 4A TO-220AB	SPP04N80C3	Infineon
104	1	Q6	STP80NF10	MOSFET N-CH 100V 80A TO-220	STP80NF10	ST
105	1	U10	TL431AIDBZR	IC, Precision Adjustable Shunt Regulator	TL431AIDBZR	TI
106	1	J7	TSW-111-08-T-S-RA	CONN HEADER 11POS .100" SNGL R/A	SW-111-08-T-S-R	Samtec Inc
107	1	U4	UCC25710DW	IC, LLC Half Bridge LED Multi-String Controller	UCC25710DW	TI
108	1	U5	UCC27324D	C, Dual 4A Peak High Speed Low-Side MOSFET Drive	UCC27324D	TI
109	1	U8	UCC28610D	IC, Quasi-Resonant Flyback Green-Mode Controller	UCC28610D	TI
110	1	U2	UCC28810D	IC, LED LIGHTING POWER CONTROLLER	UCC28810D	TI
111	4	D6 D8 D11 D38	X0202MN 5BA4	SCR 600V 1.25A SOT-223	X0202MN 5BA4	ST

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