

PMP4371 BOM
5/24/2013

Item	Qty	Reference	Value	Description	Part Number	MFR	Size
1	1	D12	1N5406	DIODE, General Purpose, 600V, 3.0A	STD	Fairchild	DO-201AD
2	5	C25 C29 C32 C44 C55	100nF	Capacitor, Ceramic, Chip, 10%, 0805	STD	muRata	0805
3	1	C49	470nF/16V	Capacitor, Ceramic, Chip, 10%, 0805	STD	muRata	0805
4	1	C38	220nF/16V	Capacitor, Ceramic, Chip, 10%, 0805	STD	muRata	0805
5	3	C15 C35 C41	1nF	Capacitor, Ceramic, Chip, 10%, 0805	STD	muRata	0805
6	2	C34 C36	100pF	Capacitor, Ceramic, Chip, 10%, 0805	STD	muRata	0805
7	4	C13 C24 C45 C56	1uF/25V	Capacitor, Ceramic, Chip, 10%, 0805	STD	muRata	0805
8	1	C16 C27	2.2uF/16V	Capacitor, Ceramic, Chip, 10%, 0805	STD	muRata	0805
9	1	C43	2.2uF/35V	Capacitor, Ceramic, Chip, 10%, 0805	STD	muRata	0805
10	1	C14	220pF	Capacitor, Ceramic, Chip, 10%, 0805	STD	muRata	0805
11	2	C18 C39	330pF	Capacitor, Ceramic, Chip, 10%, 0805	STD	muRata	0805
12	2	C9 C40	470pF	Capacitor, Ceramic, Chip, 10%, 0805	STD	muRata	0805
13	1	C17	47nF	Capacitor, Ceramic, Chip, 10%, 0805	STD	muRata	0805
14	1	C11	47pF/100V	Capacitor, Ceramic, Chip, 10%, 0805	STD	muRata	0805
15	0	C10 C42 C28 C22 C46	NA	Capacitor, Ceramic, Chip, 10%, 0805	STD	muRata	0805
16	1	C23	470pF/630V	Capacitor, Ceramic, Chip, 10%, 1206	STD	muRata	1206
17	1	C47	10uF	CAP CER 10UF 25V X7R 1210	STD	MuRata	1210
18	1	C51	10uF	CAP ALUM 10UF 400V 20% RADIAL	EEU-EB2G100	Panasonic	
19	4	C4-7	2.2nF	CAP 2200PF 250VAC E X1Y2 RAD	DE2E3KY222 MA3BM02	muRata	
20	1	C53	120uF/450V	CAP 120UF 450V ELECT TS-ED	EET- HC2W121JA	Panasonic	
21	1	C19	0.47uF/630V	CAP FILM 0.47UF 630VDC RADIAL	ECW-F6474JL	Panasonic	
22	2	C30-31	8.2nF	CAP FILM .0082UF 1KV METALPOLYPR	B32671L0822J 000	EPCOS	
23	0	C20	NA			Panasonic	
24	1	C12	0.1 uF	.1UF/630VDC METAL POLY CAP	ECQE6104KF	Panasonic	
25	1	C8	0.82uF	.82UF/630VDC METAL POLY CAP	ECQ-E6824KF	Panasonic	
26	3	C1-3	0.1uF	CAP .1UF 275VAC INTER SUPP X2	ECQ- U2A104BC1	Panasonic	

27	1	C66	220uF/25V	CAP ALUM 220UF 25V 20% RADIAL		Panasonic	
28	1	C26	100uF/35V	CAP ALUM 220UF 16V 20% RADIAL		Parasonic	
29	1	T2	1:01:01	Gate driver	CN6808-A	CoilCraft	
30	1	J7	TSW-111-08-T	CONN HEADER 11POS .100" SNGL R/A	TSW-111-08-T-S-RA	Samtec Inc	
31	1	J1	B6B-EH-A	Header, Top Entry 6-pin, 98 mil spacing,	B6B-EH-A	EH	
32	2	D5 D29	S1M-E3/61T	DIODE GPP 1A 1000V SMA	S1M-E3/61T	Diodes	DO-41
33	2	D3 D40	BAS16	Diode, Switching, 150-mA, 75-V, 350mW	BAS16	NXP	SOT23
34	0	D2	NA	NA		NXP	SOT23
35	1	D1	KBU6J	Diode, IC BRIDGE RECT 6A 600V KBU	KBU6J	Vishay	
36	0	D18 D19	NA	NA		OnSemi	
37	1	D22	18V	DIODE ZENER 18V 500MW SOD-123		Onsemi	SOD-123
38	1	D20	5.1V	DIODE ZENER 5.1V 500MW SOD-123		Onsemi	SOD-123
39	1	D10	5.6V	DIODE ZENER 5.6V 500MW SOD-123		Onsemi	SOD-123
40	2	D16 D24	BAT54S	DIODE SCHOTTKY 30V 200MA SOT23	BAT54S-V-GS08	STD	SOT23
41	4	D6-9	MURS360	DIODE ULTRA FAST 600V 3A DO214AB	MURS360-E3/57T		SMC
42	3	D11 D15 D21	1A, 1000V	Standard Rectifier, 1A, 1000V	M7	ON/Diodes	SMA
43	3	D13-14 D23	MURA120	DIODE ULTRA FAST 1A 200V SMA	MURA120T3G	STD	SMA
44	1	D4	STTH5L06D	DIODE UFAST 600V 5A TO-220AC	STTH5L06D	ST	TO-220
45	1	F1	3.15A/250V	FUSE FAST-ACT 3.15A 250V UL TR5	37313150410	Littelfuse / Wickmann	
46	1	L1	100uH	CHOKE TOROID 100UH 2.0A VERT	7447021	Würth	
47	1	L5	47uH	CHOKE TOROID 47UH 2A VERTICAL	744841247	Würth	
48	1	L6	20mH	CHOKE TOROID 20MH 1.5A VERT	744823220	Würth	
49	1	T3	500uH	LLC Transformer PQ2625 500uH		mid-com	
50	1	L4	150uH	Resonance Choke PQ2016 150uH	750341229	mid-com	
51	3	E1 E3-4	ERZ-V14D471	MOV, SUR ABSORBER 14MM 470V 4500A ZNR	ERZ-V14D471	Panasonic	
52	1	L3	300uH	PFC choke 300uH PQ2625	750341233	mid-com	
53	2	H1-2		Heatsink, Custom			

54	1	C21	2.2nF	CAP CER 2200PF 250V 20% RADIAL	DE1E3KX222 MA5BA01	muRata	
55	1	R84	1	Resistor, Metal Film, 1/5W, 1%	STD	Std	0805
56	0	R54 R30 R43 R61 R74	NA	Resistor, 1/5W, 1%	STD	Std	0805
57	3	R16 R45 R63	1M	Resistor, Chip, 1/4W, 1%,1206	STD	STD	1206
58	1	R27	910K	Resistor, Chip, 1/4W, 1%,1206	STD	STD	1206
59	1	R24	1.6K	Resistor, Chip, 1/8W, 1%, 0805	STD	Yageo	0805
60	2	R5 R58 R37 R9	10	Resistor, Chip, 1/8W, 1%, 0805	STD	Yageo	0805
61	4	R8 R23 R33-35 R31 R29 R12 R47 R52	10K	Resistor, Chip, 1/8W, 1%, 0805	STD	Yageo	0805
62	1	R28	13K	Resistor, Chip, 1/8W, 1%, 0805	STD	Yageo	0805
63	1	R38	15K	Resistor, Chip, 1/8W, 1%, 0805	STD	Yageo	0805
64	8	R11 R25-26 R64 R67-68 R71 R22	2.2	Resistor, Chip, 1/8W, 1%, 0805	STD	Yageo	0805
65	1	R60	2.2K	Resistor, Chip, 1/8W, 1%, 0805	STD	Yageo	0805
66	1	R44 R55	20K	Resistor, Chip, 1/8W, 1%, 0805	STD	Yageo	0805
67	1	R59	23.2K	Resistor, Chip, 1/8W, 1%, 0805	STD	Yageo	0805
68	4	R4 R39-40 R7	24K	Resistor, Chip, 1/8W, 1%, 0805	STD	Yageo	0805
69	1	R3	30	Resistor, Chip, 1/8W, 1%, 0805	STD	Yageo	0805
70	1	R41	30K	Resistor, Chip, 1/8W, 1%, 0805	STD	Yageo	0805
71	1	R36	34.8K	Resistor, Chip, 1/8W, 1%, 0805	STD	Yageo	0805
72	3	R18 R20-21	390K	Resistor, Chip, 1/8W, 1%, 0805	STD	Yageo	0805
73	1	R51	4.7M	Resistor, Chip, 1/8W, 1%, 0805	STD	Yageo	0805
74	1	R15	430K	Resistor, Chip, 1/8W, 1%, 0805	STD	Yageo	0805
75	2	R42 R57	43K	Resistor, Chip, 1/8W, 1%, 0805	STD	Yageo	0805
76	1	R6	470	Resistor, Chip, 1/8W, 1%, 0805	STD	Yageo	0805
77	1	R62	47k	Resistor, Chip, 1/8W, 1%, 0805	STD	Yageo	0805
78	1	R46	5.1K	Resistor, Chip, 1/8W, 1%, 0805	STD	Yageo	0805
79	1	R32	5.6K	Resistor, Chip, 1/8W, 1%, 0805	STD	Yageo	0805
80	1	R49	51K	Resistor, Chip, 1/8W, 1%, 0805	STD	Yageo	0805
81	4	R10 R13-14 R19	560K	Resistor, Chip, 1/8W, 1%, 0805	STD	Yageo	0805
82	1	R48	6.8K	Resistor, Chip, 1/8W, 1%, 0805	STD	Yageo	0805
83	1	R70	75K	Resistor, Chip, 1/8W, 1%, 0805	STD	Yageo	0805
84	1	R53	82K	Resistor, Chip, 1/8W, 1%, 0805	STD	Yageo	0805

85	1	R85	0	Resistor, Chip, 1/4W, 5%	STD	Std	1206
86	1	R81	270K	Resistor, Chip, 1/4W, 1%	STD	Std	1206
87	2	R56 R78	750K	Resistor, Metal Film, 1/4 watt, ± 1%	STD	Vishay	1206
88	0	R86	NA	Resistor, Chip, 1/4W, 1%	STD	Std	1206
89	1	R2	0.22	RES WIREWOUND .22 OHM 3W	RWM0410R22 0JR15E1	Vishay	
90	1	R17	2	RES WIREWOUND 2 OHM 3W		Vishay	
91	1	R1	3R	CURRENT LIMITER INRSH 3 OHM 5.4A	B57236S0309 L002	EPCOS	
92	1	X1	A81-A600X	SURGE ARRESTER 600V GASTUBE 2PIN	A81-A600X	EPCOS	
93	1	T5		Auxiliary transformer EE16	75341831	mid-com	
94	1	U1	LM2904	IC, Dual OpAmp With Internal Reference	LM2904	TI	SO8
95	1	Q5	MMBT3906LT1	TRANSISTOR SWITCHING PNP SOT-23		NXP	SOT23
96	0	Q4	NA				SC-75
97	1	Q9	STD2Hnk60Z	MOSFET N-CH 600V 3.2A TO252-3	STD2Hnk60Z	ST	DPAK
98	3	Q1 Q7-8	AOT20S60L	MOSFET N-CH 600V 20.2A TO220	AOT20S60L	Alpha & Omega	TO-220V
99	2	Q10 Q12	BCX54	TRANSISTOR NPN 45V 1A SOT89	BCX54	STD	SOT23
100	2	Q6 Q11	BCX51	TRANSISTOR PNP 45V 1A SOT89	BCX51	STD	SOT23
101	1	U3	UCC28700	Flyback Controller With Primary-Side Regulation	UCC28700DBV T	TI	SOT23-6
102	1	U4	UCC25710DW	IC, LLC Half Bridge LED Multi-String Controller	UCC25710DW	TI	SO-20
103	1	U2	UCC28810D	IC, LED LIGHTING POWER CONTROLLER	UCC28810D	TI	SO8

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