

PMP4333A BOM

10/26/2012

Item	Reference	Value	Qty	MFR	Part Name	Description	MFG PART NUMBER
1	C78 C105	560uF/10V	2	Panasonic/Sanyo	560uF/10V,20%	Capacitor, SMD Electrolytic, 10V, 560uF, 20% Temp	10SVP560M
2	U5 U8 U15	ISO7220CF	3	TI	521-ISO7220,ISO7220CF	Dual CHANNEL 25 MBPS DIGITAL ISOLATOR	ISO7220CFDW
3	C26	0.1uF/10V	1	MURATA	C0603,0.1uF/10V	Capacitor, Ceramic, 10V, 0.1uF, X7R, 10%	
4	C20	0.1uF/25V	1	MURATA	C0603,0.1uF/25V	Capacitor, Ceramic, 25V, 0.1uF, X7R, 10%	
5	C4-5 C82 C89-90 C107 C112 C116-117	0.1uF/25V	9	MURATA	C0603,0.1uF/25V,10%	Capacitor, Ceramic, 25V, 0.1uF, X7R, 10%	
6	C44	0.1uF/50V	1	MURATA	C0603,0.1uF/50V	Capacitor, Ceramic, 50V, 0.1uF, X7R, 10%	
7	C25	100pF/100V	1	MURATA	C0603,100pF/100V	Capacitor, Ceramic, 100V, 100pF, X7R,	
8	C6 C12-13 C47 C54-55 C102	100pF/10V	7	MURATA	C0603,100pF/10V,5%	Capacitor, Ceramic, 10V, 100pF, C0G, 5%	
9	C50	100pF/16V	1	MURATA	C0603,100pF/16V	Capacitor, Ceramic, 16V, 100pF, C0G, 5%	
10	C33-35 C41 C84	100pF/16V	5	MURATA	C0603,100pF/16V	Capacitor, Ceramic, 16V, 100pF, C0G, 5%	
11	C79	10nF/16V	1	MURATA	C0603,10nF/16V	Capacitor, Ceramic, 16V, 10nF, X7R, 10%	
12	C28-30 C40	1nF/16V	4	MURATA	C0603,1nF/16V,10%	Capacitor, Ceramic, 16V, 1nF, X7R, 10%	
13	C57 C73 C76	1nF/16V	3	MURATA	C0603,1nF/16V,10%	Capacitor, Ceramic, 16V, 1nF, X7R, 10%	

14	C46 C74 C135	1uF/10V	3	MURATA	C0603,1uF/10V,10%	Capacitor, Ceramic, 10V, 1uF, X7R, 10%	
15	C2 C85	1uF/16V	2	MURATA	C0603,1uF/16V,10%	Capacitor, Ceramic, 16V, 1uF, X7R, 10%	
16	C10-11 C16-18 C31 C37 C52-53 C3 C86	1uF/16V	12	MURATA	C0603,1uF/16V,10%	Capacitor, Ceramic, 16V, 1uF, X7R, 10%	
17	C22	2.2uF/16V	1	MURATA	C0603,2.2uF/16V	Capacitor, Ceramic, 16V, 2.2uF, X7R, 10%	
18	C15 C95	2.2uF/16V	2	MURATA	C0603,2.2uF/16V,10%	Capacitor, Ceramic, 16V, 2.2uF, X7R, 10%	
19	C27 C32 C38-39 C48 C83	22nF/16V	6	MURATA	C0603,22nF/16V,10%	Capacitor, Ceramic, 16V, 22nF, X7R, 10%	
20	C1	3.3nF/50V	1	MURATA	C0603,3.3nF/50V	Capacitor, Ceramic, 50V, 3.3nF, X7R, 10%	
21	C51 C67 C110-111 C114 C118	4.7uF/10V	6	MURATA	C0603,4.7uF/10V,10%	Capacitor, Ceramic, 10V, 4.7uF, X7R, 10%	
22	C99-101	470pF/16V	3	MURATA	C0603,470pF/16V,10%	Capacitor, Ceramic, 16V, 470pF, X7R, 10%	
23	C56 C75 C77	8.2nF/16V	3	MURATA	C0603,8.2nF/16V,10%	Capacitor, Ceramic, 16V, 8.2nF, X7R, 10%	
24	C93	10uF/10V	1	MURATA	C0805,10uF/10V,10%	Capacitor, Ceramic, 10V, 10uF, X7R, 10%	
25	C92	4.7uF/16V	1	MURATA	C0805,4.7uF/16V,10%	Capacitor, Ceramic, 10V, 4.7uF, X7R, 10%	
26	C21 C23-24	10uF/16V	3	MURATA	C1206,10uF/16V	Capacitor, Ceramic, 16V, 10uF, X7R, 10%	
27	C113 C115	1nF/250V	2	MURATA	C1206,1nF/250V	Capacitor, Ceramic, 250V, 1nF, X7R, 10%	
28	C7-8 C68-69	2.2uF/16V	4	MURATA	C1206,2.2uF/16V	Capacitor, Ceramic, 16V, 2.2uF, X7R, 10%	

29	C96	47nF/250V	1	MURATA	C1206,47nF/250V	Capacitor, Ceramic, 250V, 47nF, X7R, 10%	
30	C70-71 C98 C104	2.2nF/630V	4	MURATA	C1210,2.2nF/630V,10%	Capacitor, Ceramic, 630V, 2.2nF, X7R,	
31	C19 C64	2.2uF/100V	2	MURATA	C1210,2.2uF/100V,10%	Capacitor, Ceramic, 100V, 2.2uF, X7R,	
32	C43 C58-63 C42 C65-66 C72 C80-81 C87-88 C94 C97 C130-132	2.2uF/100V	20	MURATA	C1210,2.2uF/100V,10%	Capacitor, Ceramic, 100V, 2.2uF, X7R, 10%	
33	C106 C108-109	22uF/10V	3	MURATA	C1210,22uF/10V,10%	Capacitor, Ceramic, 10V, 2.2uF, X7R, 10%	
34	C128	47nF/250V	1	MURATA	C1812,47nF/250V	Capacitor, Ceramic, 250V, 47nF, C0G, 5%	
35	J1	62101021021	1	Würth Elektronik	CONN_FTSH-105-01-L-DV,62101021021	Header, 2x5 pin 50 mil spacing	
36	D4 D6 D14	BAS21	3	Infineon	D-BAS21-03W,BAS21	Diode, High-Speed Switching, 250-mA, 200-V	
37	D27	BAS21	1	Infineon	D-BAS21-03W,BAS21	Diode, High-Speed Switching, 250-mA, 200-V	
38	D3 D9 D12-13 D16-19 D21-26 D28-30 D35	BAT54	18	Vishay-Liteon	D-BAT54,BAT54	Diode, Schottky, 200-mA, 30-V	
39	D5	MBR0540	1	On Semi	D-MBR0530TX,MBR0540	Diode, Schottky, 40V, 0.5A	MBR0540T1G
40	D2 D7-8	BAS21	3	Fairchild	D-MMBD914,BAS21	Diode, Fast Switching, 250V	BAS21
41	D1 D10-11 D15 D20 D31-34 D36	STTH5R06B	10	ST	D-STTH5R06B,STTH5R06B	Diode, Ultra-Fast High-Power Rectifier, 600V, 5A	

42	C9 C14 C36 C45 C49 C91	150uF/80V	6	Panasonic	EEEF1K151AQ,150uF/80V,20%	Capacitor, SMD Electrolytic, 80V, 150uF, 20% Temp 105C	
43	F1	15A 86V	1	Cooper	FUSE_6125FA_SERIES,15A 86V	FUSE 15A 86VDC FAST 6125FA	TR2/6125FA15A
44	U7 U16-17	INA202	3	TI	INA20X,INA202	IC, High-Side Measurement C/Shunt Monitor with Comp.and Ref. Gain xxV/V	
45	L5	470nH	1	Vishay	IND_IHLP-2525CZ-01,470nH	Inductor, Power, 16A	IHLP2525CZERR47M01
46	L2 L6	LDC-30-27uH(48V)	2	Chengdu Goldriver Electronics Co., Ltd.	LDC-30-27uH(48V)	Inductor,	
47	L1	LER-20-3uH	1	Chengdu Goldriver Electronics Co., Ltd.	LER-20-3uH	Inductor,	
48	U12	LM34927SD	1	TI	LM34927SD,LM34927SD	IC, Integrated Secondary Side Bias Regulator	
49	U18 U20	LM60C	2	TI	LM60X,LM60C	IC, Temp Sensor	LM60CIM3X
50	R43	0R0	1	YAGEO	R603,0R0	Resistor, Chip,	
51	R25 R82 R94	0R0	3	YAGEO	R603,0R0,1%	Resistor, Chip,	
52	R54 R64 R75	100K	3	YAGEO	R603,100K	Resistor, Chip,	
53	R93 R147-148	100K	3	YAGEO	R603,100K,1%	Resistor, Chip,	
54	R8 R24 R78 R80 R125-	100R	6	YAGEO	R603,100R	Resistor, Chip,	
55	R2-3 R129-130	10K	4	YAGEO	R603,10K	Resistor, Chip,	
56	R7 R13 R16-17 R29 R40 R57 R81 R92 R96	10K	15	YAGEO	R603,10K,1%	Resistor, Chip, 1/16W,	
57	R45 R47 R127-128	10R	6	YAGEO	R603,10R	Resistor, Chip,	

58	R65 R67 R76	1K	3	YAGEO	R603,1K	Resistor, Chip,	
	R37 R50 R55-56 R58					Resistor, Chip,	
59	R63 R89-90 R95	1K	9	YAGEO	R603,1K,1%	1/16W,	
60	R4-5 R131-132	1R	4	YAGEO	R603,1R	Resistor, Chip,	
61	R70	2.2K	1	YAGEO	R603,2.2K,1%	Resistor, Chip,	
62	R22 R38 R135	2.4K	3	YAGEO	R603,2.4K,1%	Resistor, Chip,	
63	R88 R99 R102 R108-	2K	6	YAGEO	R603,2K,1%	Resistor, Chip,	
64	R98 R101 R105	48K	3	YAGEO	R603,48K,1%	Resistor, Chip,	
65	R36	5.1K	1	YAGEO	R603,5.1K,1%	Resistor, Chip,	
66	R59 R83-84 R103	510R	4	YAGEO	R603,510R,1%	Resistor, Chip,	
67	R60-61	NA	2	YAGEO	R603,NA,1%	Resistor, Chip,	
68	R73-74 R114	0R002	3	YAGEO	R1206,0R002	Resistor, Metal Film, 1/4 watt, ± 5%	
69	R44 R46 R120 R123 R150-151	0R005	6	YAGEO	R1206,0R005	Resistor, Metal Film, 1/4 watt, ± 5%	
70	R11 R53	1k	2	YAGEO	R1206,1k	Resistor, Metal Film, 1/4 watt, ± 5%	
71	R6	2k	1	YAGEO	R1206,2k	Resistor, Metal Film, 1/4 watt, ± 5%	
72	R133 R142	47R	2	YAGEO	R1206,47R	Resistor, Metal Film, 1/4 watt, ± 5%	
73	R1 R68	2.4K	2	YAGEO	R1812,2.4K	Resistor, Chip, 1/2W, 1%	
74	R48	0.511R	1	YAGEO	R0603_1%,0.511,1%	Resistor, Chip, 1/10W, 1%	
75	R52	0R75	1	YAGEO	R0603_1%,0R75,1%	Resistor, Chip, 1/10W, 1%	
76	R49	100K	1	YAGEO	R0603_1%,100K,1%	Resistor, Chip, 1/10W, 1%	

77	R71 R77 R121	10K	3	YAGEO	R0603_1%,10K	Resistor, Chip, 1/16W, 1%	
78	R32	120K	1	YAGEO	R0603_1%,120K,1%	Resistor, Chip, 1/10W, 1%	
79	R30	150K	1	YAGEO	R0603_1%,150K,1%	Resistor, Chip, 1/10W, 1%	
80	R51	15K	1	YAGEO	R0603_1%,15K,1%	Resistor, Chip, 1/10W, 1%	
81	R86	1K	1	YAGEO	R0603_1%,1K	Resistor, Chip, 1/16W, 1%	
82	R33	27K	1	YAGEO	R0603_1%,27K	Resistor, Chip, 1/16W, 1%	
83	R31	3.3K	1	YAGEO	R0603_1%,3.3K,1%	Resistor, Chip, 1/10W, 1%	
84	R34	3.9K	1	YAGEO	R0603_1%,3.9K	Resistor, Chip, 1/16W, 1%	
85	R69	39K	1	YAGEO	R0603_1%,39K	Resistor, Chip, 1/16W, 1%	
86	R66 R124	3R0	2	YAGEO	R0603_1%,3R0,1%	Resistor, Chip, 1/10W, 1%	
87	R35	49R9	1	YAGEO	R0603_1%,49R9	Resistor, Chip, 1/16W, 1%	
88	R87	91K	1	YAGEO	R0603_1%,91K	Resistor, Chip, 1/16W, 1%	
89	R10 R39 R134	10R	3	YAGEO	R0805_1%,10.0,1%	Resistor, Chip, 1/8W, 1%	
90	R62	100R	1	YAGEO	R0805_1%,100R,1%	Resistor, Chip, 1/8W, 1%	
91	R23 R41 R112 R118	1K	4	YAGEO	R0805_1%,1K,1%	Resistor, Chip, 1/8W, 1%	

92	R9 R12 R14-15 R18-21 R26-28 R42 R79 R85 R91 R97 R100 R106- 107 R111 R115 R119	4R	27	YAGEO	R0805_1%,4R,1%	Resistor, Chip, 1/8W, 1%	
93	R116	560R	1	YAGEO	R0805_1%,560R	Resistor, Chip, 1/10W, 1%	
94	R72 R113 R117 R122	47R	4	YAGEO	R1210_5%,47R	Resistor, Chip, 1/2W, 0.1%	
95	MH1-5	NA	5		TH-SCREW#6_NON- PLATED	Through Hole for Screw #6	
96	U19	TPS715A33	1	TI	TPS715AXXDRB,TPS715A 33	IC LDO REG	TPS715A33DRBT
97	U14	TPS715A50	1	TI	TPS715AXXDRB,TPS715A 50	IC LDO REG	TPS715A50DRBT
98	TP1-10	NA	10		TP_3X4.8MM_SM	Test Point, SM, 3x4.8mm	
99	Q6-7 Q9-10 Q_B1-4 Q_T1-4	BSC06N10NS3G	12	Infineon	TR- BSC060N10NS3G,BSC06 N10NS3G	MOSFET, Nch, 100V, 90A, 6 milliohm	BSC06N10NS3G
100	Q1 Q3-4	BSC190N15NS3G	3	Infineon Technologies AG	TR- BSC060N10NS3G,BSC190 N15NS3G	MOSFET, N-CH, 150V, 35A, 18mohm	BSC190N15NS3G
101	Q8 Q29	BSC190N15NS3G	2	Infineon Technologies AG	TR- BSC060N10NS3G,BSC190 N15NS3G	MOSFET, N-CH, 150V, 35A, 18mOhm	BSC190N15NS3G
102	Q15	IRF6216TRPBF; SI4455DY-T1-E3	1	IR, Vishay	IRF6216TRPBF; SI4455DY- T1-E3	MOSFET, PChan, - 150V, -2.2A, 0.24	
103	Q2 Q5	BSP296	2	Infineon Technologies AG	TR_NFET_SOT223,BSP29 6	MOSFET, N-ch, 100V, 1.1A, 0.7Ohm	

104	SW1	TS5A3359DCUR	1	TI	TS5A3359DCUR,TS5A3359DCUR	IC, 1 Ohm SP3T Analog Switch	
105	U2 U4 U9 U11	UCC27201A	4	TI	UCC2720XD,UCC27201A	IC, HIGH/LOW SIDE DRIVER, 3A	UCC27201A
106	U3 U6	UCC27423DGN	2	TI	UCC27424DGN,UCC27423DGN	IC, Dual Non-Inverting 4A High Speed Low-Side MOSFET Driver w/ Enable	
107	U10 U13	UCC27424DGN	2	TI	UCC27424DGN,UCC27424DGN	IC, Dual Non-Inverting 4A High Speed Low-Side MOSFET Driver w/ Enable	
108	U1	UCD3138RHA	1	TI	UCD3138RHA,UCD3138RHA	IC, Digital Power Controllers	
109	T5 T8	BDC-30-78	2	Chengdu Goldriver Electronics Co., Ltd.	BDC-30-78	Transformer for 48V output	
110	T1	BDC-20-7:2	1	Chengdu Goldriver Electronics Co., Ltd.	BDC-20-7:2	Transformer for 5.5V output	
111	T6	BSEPC10-138	1	Chengdu Goldriver Electronics Co., Ltd.	BSEPC10-138	Transformer for Aux power supply	
112	T2-4	100:1 CURRENT SENSE XFMR	3	Pulse	XFMR_PA1005_SERIES,100:1 CURRENT SENSE XFMR	SMT 100:1 CURRENT SENSE	PA1005.100

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