

Assembly Bill of Materials

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PCB Part Number: 551_07804-001 REV A

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Project Name: PMP7804
Project File: PMP7804 REV A.PrjPcb
Base ID: 07804
PCB CopperRev: 001
PCB SilkRev: REV A
Assembly Variant: -200
Schematic Rev: X1
Build Quantity: 100
Generated: 2/14/2012 8:48:19 AM

Item	Designator	Description	RoHS	Manufacturer	PartNumber	194		19400	Quantity	Required	DigikeyPartNumber	Supplier 1	Supplier Part Number 1	Alternate Manufacturer	Alternate PartNumber
						194	19400								
1	AA1	Printed Circuit Board	O	TBD	Used in BOM Report	1	100	?							
2	C1, C2, C28, C29	CAP, POSCAP, 330uF, 4.0V, +/-20%, 0.018 ohm, Case Code R SMD	Y	Sanyo	4TPE330MI	4	400				NONE				
3	C3, C4, C8, C25, C26, C41, C42, C43, C44	CAP, CERM, 10uF, 16V, +/-10%, X5R, 0805	Y	Taiyo Yuden	EMK212BJ106KG-T	9	900					Digi-Key	587-1295-1-ND		
4	C5, C9, C22, C24, C27, C38, C45, C49, C51, C59, C64, C66, C73, C76	CAP, CERM, 1uF, 16V, +/-10%, X5R, 0603	Y	Kemet	C0603C105K4PACTU	14	1400				399-5090-1-ND				
5	C6, C11, C17, C20, C31, C33, C37, C46, C47, C58, C72	CAP, CERM, 0.01uF, 100V, +/-5%, X7R, 0603	Y	Kemet	C0603C103J1RACTU	11	1100				399-3190-1-ND				
6	C7	CAP, CERM, 0.1uF, 25V, +/-20%, Y5V, 0603	Y	TDK	C1608Y5V1E104Z	1	100				445-1325-1-ND				
7	C10, C14, C50, C61	CAP, CERM, 3900pF, 50V, +/-10%, X7R, 0603	Y	MuRata	GRM188R71H392KA01D	4	400				490-1504-1-ND				
8	C12	CAP, POSCAP, 330uF, 2.5V, +/-20%, 0.009 ohm, SMD	Y	Sanyo	2R5TPE330M9C2	1	100				NONE				
9	C13, C18, C32, C52, C65	CAP, CERM, 100pF, 25V, +/-10%, X7R, 0603	Y	AVX	06033C101KAT2A	5	500								
10	C15, C16, C34, C35, C36, C54, C55, C56, C57, C68, C69, C70, C71	CAP, POSCAP, 330uF, 2.0V, +/-20%, 0.006 ohm, SMD	Y	Sanyo	2TPE330M6	13	1300				NONE				
11	C19	CAP, CERM, 2200pF, 50V, +/-5%, C0G/NP0, 0603	Y	MuRata	GRM1885C1H222JA01D	1	100				490-1459-1-ND				
12	C21	CAP, CERM, 1uF, 10V, +/-10%, X5R, 0603	Y	Kemet	C0603C105K8PACTU	1	100				399-3118-1-ND				
13	C23, C48, C62, C63, C75	CAP, CERM, 47uF, 6.3V, +/-20%, X5R, 0805	Y	Taiyo Yuden	JMK212BJ476MG-T	5	500				587-1779-1-ND	Newark	08P5150		
14	C30	CAP, CERM, 4700pF, 50V, +/-5%, X7R, 0603	Y	Kemet	C0603C472J5RACTU	1	100				399-1088-1-ND				
15	C39, C40, C77, C78	CAP, POSCAP, 470uF, 4.0V, +/-20%, 0.010 ohm, SMD	Y	Sanyo	4TPF470ML	4	400				NONE				
16	C53, C67	CAP, CERM, 3300pF, 50V, +/-10%, X7R, 0603	Y	Kemet	C0603C332K5RACTU	2	200				399-1086-1-ND				
17	C60	CAP, CERM, 47pF, 50V, +/-5%, C0G/NP0, 0603	Y	Kemet	C0603C470J5GACTU	1	100				399-1056-1-ND				
18	D2, D3	Diode, Schottky, 30V, 0.2A, SOT-23	Y	Diodes Inc.	BAT54-7-F	2	200				BAT54-FDICT-ND				
19	FID1, FID2, FID3, FID4, FID5, FID6	Fiducial mark. There is nothing to buy or mount.		N/A	N/A	6	600								
20	J1	CONN HEADER 10POS .200" T/H	Y	SAMTEC	HPM-10-05-T-S	1	100				HPM-10-05-T-S-ND				
21	J2	CONN HEADER 8POS .200" T/H	Y	Samtec	HPM-08-05-T-S	1	100								
22	J3	CONN HEADER DUAL ROW 5POS .050" SM	Y	Samtec	FW-05-05-F-D-361-085	1	100				None				
23	J4	Header, TH, 100mil, 2x2, Gold plated, 230 mil above insulator	Y	Samtec, Inc.	TSW-102-07-G-D	1	100				SAM1028-02-ND				
24	L1	Inductor, Shielded Drum Core, Powdered Iron, 10uH, 6.8A, 0.009 ohm, SMD	RoHS Compliant	Vishay/Dale	IHLP4040DZER100M01	1	100				541-1295-1-ND				
25	L2, L3	Inductor, Shielded Drum Core, Powdered Iron, 2.2uH, 12A, 0.009 ohm, SMD	Y	Vishay-Dale	IHLP4040DZER2R2M01	2	200				541-1299-1-ND				
26	L4, L5	Inductor, Shielded Drum Core, Powdered Iron, 1.5uH, 15A, 0.009 ohm, SMD	RoHS Compliant	Vishay/Dale	IHLP4040DZER1R5M01	2	200				541-1301-1-ND				
27	R1, R10, R12, R34, R37	RES, 49.9k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW060349K9FKEA	5	500				541-49.9KHCT-ND				
28	R3, R32	RES, 12.1k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW060312K1FKEA	1	100				541-12.1KHCT-ND	Newark	52K8105		
29	R4	RES, 7.06k ohm, 0.1%, 0.1W, 0603	Y	Yageo America	RT0603BRD077K06L	2	200								
30	R5, R15, R18, R31, R33, R43, R45, R63	RES, 9.09k ohm, 0.1%, 0.1W, 0603	Y	Yageo America	RT0603BRD079K09L	1	100								
31	R6	RES, 100 ohm, 5%, 0.1W, 0603	Y	Vishay-Dale	CRCW0603100R1JNEA	8	800				541-100GCT-ND	Newark	59M6764		
32	R7, R14	RES, 1.24k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW06031K24FKEA	1	100				541-1.24KHCT-ND	Newark	52K8029		
33		RES, 1.50k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW06031K50FKEA	2	200				541-1.50KHCT-ND	Newark	52K8036		

Item	Designator	Description	RoHS	Manufacturer	PartNumber	Quantity	Required	DigikeyPartNumber	Supplier 1	Supplier Part Number 1	Alternate Manufacturer	Alternate PartNumber
34	R9, R17, R23, R29, R35, R48, R50, R51, R56, R58, R65	RES, 0 ohm, 5%, 0.1W, 0603	Y	Vishay-Dale	CRCW06030000Z0EA	11	1100	541-0.0GCT-ND	Newark	52K8014	-	-
35	R11, R26, R42, R57	RES, 453 ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW0603453RFKEA	4	400	541-453HCT-ND	Newark	52K8540	-	-
36	R13, R21, R25, R27, R40	RES, 1.00k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW06031K00FKEA	5	500	541-1.00KHCT-ND	Newark	52K8015	-	-
37	R19	RES, 19.1k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW060319K1FKEA	1	100	541-19.1KHCT-ND	Newark	52K8213	-	-
38	R20, R53, R54	RES, 20.0k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW060320K0FKEA	3	300	541-20.0KHCT-ND	Newark	52K8267	-	-
39	R24, R38, R52, R67	RES, 1.0 ohm, 5%, 0.1W, 0603	Y	Vishay-Dale	CRCW06031R00JNEA	4	400	541-1.0GCT-ND	Newark	59M6759	-	-
40	R30	RES, 15.0k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW060315K0FKEA	1	100		Digi-Key	541-15.0KHCT-ND	-	-
41	R39	RES, 3.16k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW06033K16FKEA	1	100	541-3.16KHCT-ND	Newark	52K8374	-	-
42	R41, R55	RES, 8.06k ohm, 0.1%, 0.1W, 0603	Y	Yageo America	RT0603BRD078K06L	2	200				-	-
43	R44, R59	RES, 12.0k ohm, 0.1%, 0.1W, 0603	Y	Yageo America	RT0603BRD0712KL	2	200				-	-
44	R46, R64	RES, 24.9k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW060324K9FKEA	2	200	541-24.9KHCT-ND	Newark	52K8316	-	-
45	R68, R69, R70, R71	RES, 10.0k ohm, 1%, 0.1W, 0603	Y	Vishay-Dale	CRCW060310K0FKEA	4	400	541-10.0KHCT-ND	Newark	52K8062	-	-
46	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10	Test Point, TH, Miniature, Red	Y	Keystone	5000	10	1000	5000K-ND			-	-
47	TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19, TP20	Test Point, TH, Miniature, Black	Y	Keystone	5001	10	1000	5001K-ND			-	-
48	TP21, TP22, TP23, TP24, TP25	Test Point, TH, Miniature, Yellow	Y	Keystone	5004	5	500	5004K-ND			-	-
49	TV1, TV2, TV5, TV6	THERMAL VIAS 12 X 12 12 MIL DRILL 26 MIL PAD FOR LMZ22010	Y	None	THERMAL VIAS 12 X 12	4	400	None			-	-
50	U1, U4	10A SIMPLE SWITCHER® Power Module with 20V Maximum Input and Current Sharing, 11 pin TO-PMOD, 32 Rail	Y	National Semiconductor	LMZ22008TZ/NOPB	2	200	LMZ22008TZ/NOPB-ND			-	-
51	U2	36V, 3A Synchronous Buck Regulator with Frequency Synchronization, 20-pin TSSOP-EP, Pb-Free	Y	National Semiconductor	LM20333MH/NOPB	1	100	LM20333MH-ND	Digi-Key	LM20333MH-ND	-	-
52	U3, U5, U8, U10	12A High Efficiency Synchronous Buck Regulator with Frequency Synchronization, 20-pin TSSOP-EP, 73 Rail	Y	National Semiconductor	LM21212MH-1/NOPB	4	400	LM21212MH-1/NOPB-ND			-	-
53	U6, U7	10A SIMPLE SWITCHER® Power Module with 20V Maximum Input and Current Sharing, 11 pin TO-PMOD, 32 Rail	Y	National Semiconductor	LMZ22010TZ/NOPB	2	200	LMZ22010TZ/NOPB-ND			-	-
54	U9	CMOS Timer, 8-pin Mini SOIC, Pb-Free	Y	National Semiconductor	LMC555CMM/NOPB	1	100	LMC555CMMCT-ND	Digi-Key	LMC555CMMTR-ND	-	-
55	C74	CAP, CERM, 47uF, 6.3V, +/-20%, X5R, 0805	Y	Taiyo Yuden	JMK212BJ476MG-T	0	0	587-1779-1-ND	Newark	08P5150	-	-
56	D1	Diode, Zener, xxV, xxxmW, [PackageReference]	Used in BOM report. Use Y or N.	Used in BOM report	DNP	0	0	?			-	-
57	R8, R16, R22, R28, R36, R47, R49, R60, R61, R62, R66	RES, 0 ohm, 5%, 0.1W, 0603	Y	Vishay-Dale	CRCW06030000Z0EA	0	0	541-0.0GCT-ND	Newark	52K8014	-	-

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