

Filename: PMP10171RevB - BoM.xls
 Variant: None
 Generated: 5/15/2015 2:28:17 PM

PMP10171 REV B Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1, C17_1, C17_2, C17_3, C17_4	5	1uF	GRM31MR71H105KA88L	MuRata	CAP, CERM, 1 µF, 50 V, +/- 10%, X7R, 1206	1206
2	C2	1	4.7uF	GRM21BR71A475KA73L	MuRata	CAP, CERM, 4.7 µF, 10 V, +/- 10%, X7R, 0805	0805
3	C3	1	220uF	EEE-FK1H221P	Panasonic	CAP, AL, 220 µF, 50 V, +/- 20%, 0.18 ohm, SMD	SMT Radial G
4	C4, C8	2	1000pF	GRM188R71H102KA01D	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, 0603	0603
5	C5, C7	2	0.1uF	C0603C104K5RACTU	Kemet	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603
6	C6	1	10uF	GRM188R60J106ME47D	MuRata	CAP, CERM, 10 µF, 6.3 V, +/- 20%, X5R, 0603	0603
7	C9_1, C9_2, C9_3, C9_4, C10_1, C10_2, C10_3, C10_4, C11_1, C11_2, C11_3, C11_4, C12_1, C12_2, C12_3, C12_4, C13_1, C13_2, C13_3, C13_4	20	2.2uF	GRM32ER72A225KA35L	MuRata	CAP, CERM, 2.2 µF, 100 V, +/- 10%, X7R, 1210	1210
8	C14_1, C14_2, C14_3, C14_4, C15_1, C15_2, C15_3, C15_4, C16_1, C16_2, C16_3, C16_4	12	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
9	C18_1, C18_2, C18_3, C18_4, C21_1, C21_2, C21_3, C21_4	8	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603	0603
10	C19_1, C19_2, C19_3, C19_4	4	0.1uF	GCM188R71H104KA57D	MuRata	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603
11	C20_1, C20_2, C20_3, C20_4	4	0.01uF	GRM188R71H103KA01D	MuRata	CAP, CERM, 0.01 µF, 50 V, +/- 10%, X7R, 0603	0603
12	D1	1	28V	SM74611KTTR	Texas Instruments	Diode, P-N, 28 V, 15 A, DDPAK	DDPAK
13	D2	1	Super Red	150060SS75000	Würth Elektronik eiSos	LED, Super Red, SMD	LED_0603
14	D3_1, D3_2, D3_3, D3_4	4	60V	B360B-13-F	Diodes Inc.	Diode, Schottky, 60 V, 3 A, SMB	SMB

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15	FID1, FID2, FID3, FID4, FID5, FID6, FID7, FID8	8		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
16	J1, J5_1, J5_2, J5_3, J5_4	5		691 401 710 002B	Würth Elektronik	Terminal Block, 1x2, Tin, TH	TH, 2-Leads, Body 7.54x14.2mm
17	J2	1		SBH11-PBPC-D07-ST-BK	Sullins Connector Solutions	Header (shrouded), 100 mil, 7x2, Gold, TH	7x2 Shrouded Header
18	J3, J4	2		61300311121	Würth Elektronik eiSos	Header, 2.54 mm, 3x1, Gold, TH	Header, 2.54mm, 3x1, TH
19	L1_1, L1_2, L1_3, L1_4	4	100uH	74477020	Würth Elektronik eiSos	Inductor, Shielded Drum Core, Ferrite, 100 µH, 2.2 A, 0.102 ohm, SMD	WE-PD-XL
20	L2_1, L2_2, L2_3, L2_4	4	6.8uH	744031006	Würth Elektronik eiSos	Inductor, Shielded Drum Core, Ferrite, 6.8 µH, 0.75 A, 0.135 ohm, SMD	WE-TPC-S
21	Q1_1, Q1_2, Q1_3, Q1_4, Q2_1, Q2_2, Q2_3, Q2_4	8	60V	SI4850EY-T1-E3	Vishay-Siliconix	MOSFET, N-CH, 60 V, 6 A, SOIC-8	SOIC-8
22	R1	1	127k	CRCW0603127KFKEA	Vishay-Dale	RES, 127 k, 1%, 0.1 W, 0603	0603
23	R2, R4	2	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	0603
24	R3	1	18.2k	CRCW060318K2FKEA	Vishay-Dale	RES, 18.2 k, 1%, 0.1 W, 0603	0603
25	R5, R7, R14_1, R14_2, R14_3, R14_4, R21_1, R21_2, R21_3, R21_4	10	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
26	R6	1	150	CRCW0603150RFKEA	Vishay-Dale	RES, 150, 1%, 0.1 W, 0603	0603
27	R8	1	47.5k	CRCW060347K5FKEA	Vishay-Dale	RES, 47.5 k, 1%, 0.1 W, 0603	0603
28	R9, R17_1, R17_2, R17_3, R17_4	5	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
29	R10	1	665	CRCW0603665RFKEA	Vishay-Dale	RES, 665, 1%, 0.1 W, 0603	0603
30	R11	1	332	CRCW0603332RFKEA	Vishay-Dale	RES, 332, 1%, 0.1 W, 0603	0603
31	R12_1, R12_2, R12_3, R12_4	4	137k	CRCW0603137KFKEA	Vishay-Dale	RES, 137 k, 1%, 0.1 W, 0603	0603
32	R13_1, R13_2, R13_3, R13_4	4	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
33	R15_1, R15_2, R15_3, R15_4	4	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
34	R16_1, R16_2, R16_3, R16_4	4	0.15	CSR2010FTR150	Stackpole Electronics Inc	RES, 0.15, 1%, 1 W, 2010	2010

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35	R18_1, R18_2, R18_3, R18_4, R19_1, R19_2, R19_3, R19_4	8	1.2	CRCW12061R20JNEA	Vishay-Dale	RES, 1.2, 5%, 0.25 W, 1206	1206
36	R20_1, R20_2, R20_3, R20_4	4	4.75	CRCW06034R75FKEA	Vishay-Dale	RES, 4.75, 1%, 0.1 W, 0603	0603
37	R22_1, R22_2, R22_3, R22_4	4	110k	CRCW0603110KFKEA	Vishay-Dale	RES, 110 k, 1%, 0.1 W, 0603	0603
38	U1	1		TPS7A1633DGN	Texas Instruments	60-V, 5- μ A IQ, 100-mA, Low-Dropout Voltage Regulator with Enable and Power-Good, DGN0008C	DGN0008C
39	U2	1		MSP430G2553IPW20	Texas Instruments	Mixed Signal Microcontroller, PW0020A	PW0020A
40	U3	1	24 Pulse	PEC16-2220F-S0024	Bourns	Rotary Encoder, 24 Pulse per Revolution, TH	TH, 16x10.6mm
41	U4	1		SN74LVC1G17DCK	Texas Instruments	SINGLE SCHMITT-TRIGGER BUFFER, DCK0005A	DCK0005A
42	U5_1, U5_2, U5_3, U5_4	4		TPS61197D	Texas Instruments	Single-String WLED Driver for LCD TV, D0016A	D0016A

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