

Variant: 001
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PMP22538 REV C Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPC81	1		PMP22538	Any	Printed Circuit Board	
2	C1, C14	2	2.2uF	GRM21BR71E225KA73L	MuRata	CAP, CERM, 2.2 uF, 25 V, +/- 10%, X7R, 0805	805
3	C2	1	330uF	EKZE160ELL331MH85D	Chem-Con	CAP, AL, 330 uF, 16 V, +/- 20%, TH	D8xL11.5
4	C3	1	10uF	GRM21BR61C106KE15K	MuRata	CAP, CERM, 10 uF, 16 V, +/- 10%, X5R, 0805	805
5	C4	1	10uF	GRM31CR71E106MA12L	MuRata	CAP, CERM, 10 uF, 25 V, +/- 20%, X7R, AEC-Q200 Grade 1, 1206	1206
6	C5	1	0.22uF	8.90324E+11	Würth Elektronik	CAP, Film, 0.22 uF, 275 V, +/- 10%, TH	15x7mm
7	C6	1	2200pF	GRM155R71E222KA01D	MuRata	CAP, CERM, 2200 pF, 25 V, +/- 10%, X7R, 0402	402
8	C7, C16	2	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	603
9	C8	1	0.1uF	GRM155R71E104KE14D	MuRata	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0402	402
10	C9	1	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	603
11	C10	1	0.1uF	B32921C3104M	TDK	CAP, Film, 0.1 uF, 305 V, +/- 20%, TH	13x6x12mm
12	C11	1	47pF	GRM1555C1H470JA01D	MuRata	CAP, CERM, 47 pF, 50 V, +/- 5%, COG/NP0, 0402	402
13	C12	1	0.1uF	RDERT2J104K4M1H03A	MuRata	CAP, CERM, 0.1 uF, 630 V, +/- 10%, X7R, 7.5x3.15mm	7.5x3.15mm
14	C13	1	0.22uF	ECWFD2W224KQ	Panasonic	CAP, Film, 0.22 uF, 450 V, +/- 10%, TH	12.6x5mm
15	C15	1	0.022uF	GRM155R71H223KA12D	MuRata	CAP, CERM, 0.022 uF, 50 V, +/- 10%, X7R, 0402	402
16	C17	1	33uF	80SX33M	Panasonic	Conductive Polymer Aluminum Solid Capacitor 33uF 20% 80V Radial	RADIAL
17	C18	1	100uF	EEU-FM1E101	Panasonic	CAP, AL, 100 uF, 25 V, +/- 20%, 0.13 ohm, TH	6.3x1.2mm
18	C19	1	2200pF	VY1222M47Y5UQ6TVX	Vishay-Bccomponents	CAP, CERM, 2200 pF, X1 760 VAC/Y1 500 VAC, +/- 20%, Y5U, D12xT5mm	D12xT5mm
19	C20, C21, C22, C25	4	120uF	EEU-F81K121L	Panasonic	Cap Aluminum Lytic 120uF 80V 20% (8 X 20mm) Radial 3.5mm 810mA 9000h 105C Bulk	RADIAL
20	C23	1	10uF	GRM188Z71A106MA73D	MuRata	CAP, CERM, 10 uF, 10 V, +/- 20%, X7R, 0603	603
21	C24	1	2.2uF	GRM188Z71C225KE43	MuRata	CAP, CERM, 2.2 uF, 16 V, +/- 10%, X7R, 0603	603
22	C26	1	0.1uF	GRM21BR72A104KAC4L	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0805	805
23	D1	1	30V	BAT5411G	ON Semiconductor	Diode, Schottky, 30 V, 0.2 A, SOD-123	SOD-123
24	D2, D3	2	600V	ES1JAF	Fairchild Semiconductor	Diode, Ultrafast, 600 V, 1 A, AEC-Q101, SMAF	SMAF
25	D4, D5	2	600V	CGRM4005-G	Comchip Technology	Diode, P-N, 600 V, 1 A, MINI-SMA	MINI-SMA
26	D6	1	600V	KBP06G	Diodes Inc.	Diode, Switching-Bridge, 600 V, 1.5 A, TH	Diode Bridge
27	D7	1	100V	BAS16J.135	Nexperia	Diode, Switching, 100 V, 0.25 A, SOD-323F	SOD-323F
28	D8	1	150V	SMC1J50A-TP	Micro Commercial Component	Diode, TVS, Uni, 150 V, 243 Vc, SMC	SMC
29	D9	1	600V	MURA160T3G	ON Semiconductor	Diode, Ultrafast, 600 V, 1 A, AEC-Q101, SMA	SMA
30	D10	1	200V	MURA120T3G	ON Semiconductor	Diode, Ultrafast, 200 V, 1 A, SMA	SMA
31	D11	1		VS-15AWL06FN-M3	Vishay	Diode Standard 600V 15A Surface Mount D-PAK (TO-252AA)	D-PAK (TO-252AA)
32	D12	1	20V	3SMAJ5932B-TP	Micro Commercial Component	Diode, Zener, 20 V, 3 W, SMA	SMA
33	F1	1		37216300001	Littelfuse	Fuse, 6.3 A, 250VAC/VDC, TH	TR5 fuse 8.5mm DIA
34	J1	1		ED555/2DS	On-Shore Technology	Terminal Block, 3.5mm Pitch, 2x1, TH	7.0x8.2x6.5mm
35	L1	1	12uH	74404064331	Würth Elektronik	Inductor, Shielded, Ferrite, 12 uH, 2.2 A, 0.0754 ohm, SMD	SMD, Body 6x6mm
36	L2	1	10mH	744821110	Würth Elektronik	Coupled inductor, 10 mH, 0.7 A, 0.35 ohm, TH	15 x 18 x 7.5mm
37	L3	1	100uH	7447021	Würth Elektronik	Inductor, Toroid, Ferrite, 100 uH, 2.5 A, 0.08 ohm, TH	D15.5xT9mm
38	L4	1	470uH	7447480471	Würth Elektronik	Inductor, Wirewound, Ferrite, 470 uH, 1.15 A, 0.47 ohm, TH	TH, Dia 10.5mm
39	L5	1	22uH	BRC2518T220K	Taiyo Yuden	Inductor, Wirewound, 22 uH, 0.49 A, 0.56 ohm, SMD	1007(2518)
40	Q1	1	60 V	MMBT2907A	Fairchild Semiconductor	Transistor, PNP, 60 V, 0.8 A, SOT-23	SOT-23
41	Q2	1	40 V	MMBT3904-7-F	Diodes Inc.	Transistor, NPN, 40 V, 0.2 A, SOT-23	SOT-23
42	Q3	1	40 V	MMBT3906-7-F	Diodes Inc.	Transistor, PNP, 40 V, 0.2 A, SOT-23	SOT-23
43	R1, R2	2	100k	CRCW0402100FKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
44	R3	1	19.6k	CRCW040219K6FKED	Vishay-Dale	RES, 19.6 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
45	R4	1	1.00Meg	CRCW04021M00FKED	Vishay-Dale	RES, 1.00 M, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
46	R5	1	200k	CRCW0402200FKED	Vishay-Dale	RES, 200 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
47	R6, R7	2	1.00Meg	CRCW12061M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
48	R8	1	121k	CRCW0805121KFKEA	Vishay-Dale	RES, 121 k, 1%, 0.125 W, 0805	805
49	R9, R13, R17, R19	4	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
50	R10	1	100	CRCW0402100RFKED	Vishay-Dale	RES, 100, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
51	R11	1	100	CRCW0805100RFKEA	Vishay-Dale	RES, 100, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	805
52	R12	1	22.1k	CRCW080522K1FKEA	Vishay-Dale	RES, 22.1 k, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	805
53	R14, R16	2	20.0k	CRCW040220K0FKED	Vishay-Dale	RES, 20.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
54	R15	1	4.99k	CRCW04024K99FKED	Vishay-Dale	RES, 4.99 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
55	R18	1	150k	CRCW0402150FKED	Vishay-Dale	RES, 150 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
56	R20, R21, R22, R23	4	1.5	CRCW12061R50FKEA	Vishay-Dale	RES, 1.50, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
57	R24	1	10k	CRCW080510K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	805
58	R25	1	221	CRCW0805221RFKEA	Vishay-Dale	RES, 221, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	805
59	R26	1	3.24k	CRCW04023K24FKED	Vishay-Dale	RES, 3.24 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
60	R27, R29	2	2.49k	CRCW04022K49FKED	Vishay-Dale	RES, 2.49 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	402
61	R28	1	57.6k	CRCW080557K6FKEA	Vishay-Dale	RES, 57.6 k, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	805
62	R104	1	10k	CRCW120610K0JNEA	Vishay-Dale	RES, 10 k, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
63	T1	1		750319511	Würth Electronics	TRANSFORMER 120-400V/60V 1A	PTH_TRANSFORMER
64	TP1	1		5125	Keystone	Test Point, Multipurpose, Brown, TH	Brown Multipurpose Testpoint
65	TP2	1		5127	Keystone	Test Point, Multipurpose, Blue, TH	Blue Multipurpose Testpoint
66	TP3	1		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
67	TP4	1		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
68	U1	1		UCC28811DR	Texas Instruments	LED Lighting Power Controller, -40 to +105 degC, 8-pin SOIC (D), Green (RoHS & no Sb/Br)	D0008A
69	U2	1		UCC28881DR	Texas Instruments	700-V Lowest Quiescent Current Off-Line Switcher, D0007A (SOIC-7)	D0007A
70	U3	1		LMG3411R150RWH	Texas Instruments	600-V 150mohm GaN With Integrated Driver and Cycle-by-cycle Overcurrent Protection, RWH0032A (VOFN-32), RWH0032A (VOFN-32)	RWH0032A
71	U4	1		TCMT1107	Vishay-Semiconductor	Optocoupler, 3.75 kV, 80-160% CTR, SMT	SOP-4
72	U5	1		ATL431LIBIDBZR	Texas Instruments	High Bandwidth Low-Iq Programmable Shunt Regulator, DBZ0003A (SOT-23-3)	DBZ0003A

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