

Variant: 001
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PMP22589 REV B Bill of Materials



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	PCB1	1		PMP22589	Any	Printed Circuit Board	
2	C1	1	1000pF	GRM21AR72E102KW01D	MuRata	CAP, CERM, 1000 pF, 250 V, +/- 10%, X7R, 0805	805
3	C3	1	10uF	UVC2G100MPD1TD	Nichicon	CAP, AL, 10 uF, 400 V, +/- 20%, TH	Radial D8x16mm
4	C4, C5	2	47uF	EKZN350ELL470ME11D	Chem-Con	CAP, AL, 47 uF, 35 V, +/- 20%, 0.38 ohm, TH	D5xL11mm
5	C7	1	0.1uF	06033C104KAT2A	AVX	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	603
6	C10	1	0.1uF	C1608X7R1H104K080AA	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	603
7	C11	1	47uF	EEU-FM1E470	Panasonic	CAP, AL, 47 uF, 25 V, +/- 20%, 0.3 ohm, TH	5.0x11.0mm
8	C13	1	1uF	GRM21BR71H105KA12L	MuRata	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0805	805
9	C14	1	2200pF	DE2E3KY222MA2BM01	MuRata	CAP, CERM, 2200 pF, 250 V, +/- 20%, E, Radial D8x5mm	Radial D8x5mm
10	C15	1	100pF	06035A101FAT2A	AVX	CAP, CERM, 100 pF, 50 V, +/- 1%, C0G/NP0, 0603	603
11	C16	1	1uF	C0603C105K4PACTU	Kemet	CAP, CERM, 1 uF, 16 V, +/- 10%, X5R, 0603	603
12	C18	1	3900pF	GRM188R71H392KA01D	MuRata	CAP, CERM, 3900 pF, 50 V, +/- 10%, X7R, 0603	603
13	C19	1	0.22uF	C0603C224J3RAC7867	Kemet	CAP, CERM, 0.22 uF, 25 V, +/- 5%, X7R, 0603	603
14	C20	1	1000pF	06031C102KAT2A	AVX	CAP, CERM, 1000 pF, 100 V, +/- 10%, X7R, 0603	603
15	C101	1	0.1uF	C0603C104J5RACTU	Kemet	CAP, CERM, 0.1 uF, 50 V, +/- 5%, X7R, 0603	603
16	D1	1	600V	DF1506S-T	Diodes Inc.	Diode, Switching-Bridge, 600 V, 1.5 A, DF-S	DF-S
17	D2	1	400V	US2G-TP	Micro Commercial Component	Diode, Ultrafast, 400 V, 2 A, SMB	SMB
18	D3	1	600V	MURA160T3G	ON Semiconductor	Diode, Ultrafast, 600 V, 1 A, AEC-Q101, SMA	SMA
19	D4	1	200V	BAS20HT1G	ON Semiconductor	Diode, Switching, 200 V, 0.2 A, AEC-Q101, SOD-323	SOD-323
20	D6	1	13V	MMSZ4700T1G	ON Semiconductor	Diode, Zener, 13 V, 500 mW, SOD-123	SOD-123
21	D7	1	15V	MMSZ5245BS-7-F	Diodes Inc.	Diode, Zener, 15 V, 200 mW, SOD-323	SOD-323
22	D101, D102	2	200V	BAS21H.115	Nexperia	Diode, Standard Recovery Rectifier, 200 V, 0.2 A, SOD-123F	SOD-123F
23	L1	1	68uH	SLF10145T-680M1R2-H	TDK	Inductor, Shielded, Ferrite, 68 uH, 1.2 A, 0.168 ohm, AEC-Q200 Grade 1, SMD	SLF10145
24	Q1	1	600V	BSS126 H6906	Infineon Technologies	MOSFET, N-CH, Depletion Mode, 600 V, 0.021 A, AEC-Q101, SOT-23	SOT-23
25	Q2	1	600V	IPD60R600P7SAUMA1	Infineon Technologies	MOSFET, N-CH, 600 V, 6 A, DPAK	DPAK
26	Q3	1	40 V	MMBT3904LT1G	ON Semiconductor	Transistor, NPN, 40 V, 0.2 A, SOT-23	SOT-23
27	R2	1	75.0k	CRCW120675K0FKFA	Vishay-Dale	RES, 75.0 k, 1%, 0.25 W, 1206	1206
28	R3	1	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, 0805	805
29	R4	1	162k	CRCW0402162KFKED	Vishay-Dale	RES, 162 k, 1%, 0.063 W, 0402	402
30	R5, R9	2	10	CRCW060310R0FKFA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
31	R7, R17	2	100k	CRCW0603100KFKFA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
32	R8	1	402k	CRCW0402402KFKED	Vishay-Dale	RES, 402 k, 1%, 0.063 W, 0402	402
33	R10	1	3.3k	CRCW060333K30JNEA	Vishay-Dale	RES, 3.3 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	603
34	R11	1	2.21k	CRCW0603221KJNEA	Vishay-Dale	RES, 2.21 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
35	R12	1	0.082	KRL1220E-M-R082-F-T5	Susumu Co Ltd	RES, 0.082, 1%, .5 W, AEC-Q200 Grade 0, 0805	805
36	R13	1	49.9	CRCW060349R9FKFA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
37	R14, R20	2	0	CRCW2010000Z0EF	Vishay-Dale	RES, 0, 5%, 0.75 W, AEC-Q200 Grade 0, 2010	2010
38	R15	1	49.9k	ERJ-2RKF4992X	Panasonic	RES, 49.9 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	402
39	R16	1	4.7k	CRCW060347K0JNEA	Vishay-Dale	RES, 4.7 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	603
40	R18, R100	2	4.99k	CRCW0603499FKFA	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, 0603	603
41	R19	1	1.05k	CRCW06031K05FKFA	Vishay-Dale	RES, 1.05 k, 1%, 0.1 W, 0603	603
42	R21	1	11.8k	CRCW060311K8FKFA	Vishay-Dale	RES, 11.8 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
43	R101	1	100k	CRCW0603100KFKFA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, 0603	603
44	RV1	1	430 V	B72210S2271K101	TDK	Varistor, 430V, 3.5kA, 10mm Disc, TH	10 mm disc
45	T1	1		750319227r00	Würth Electronics	TRANSFORMER	PTH_20MM0_17MM5
46	TP1, TP2, TP4, TP5, TP8	5		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
47	TP6	1		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
48	U1	1		LM3481QMM/NOPB	Texas Instruments	High Efficiency Low-Side N-Channel Controller for Switching Regulators, AEC-Q100 Grade 1, 10-pin Mini SOIC, 1000 Reel	DGS0010A
49	U2	1		TCMT1107	Vishay-Semiconductor	Optocoupler, 3.75 kV, 80-160% CTR, SMT	SOP-4
50	U3	1			Texas Instruments	Adjustable Precision Zener Shunt Regulator, 3-pin SOT-23	DBZ0003A
51	C2, C6	0	1000pF	VY2102M29Y5UG63V7	Vishay-Bcomponents	CAP, CERM, 1000 pF, 300 V, +/- 20%, Y5U, Radial Disc 7.5mm, Is=7.5	Radial Disc 7.5mm, Is=7.5
52	C8	0	0.1uF	B32922C3104M	TDK	CAP, Film, 0.1 uF, 630 V, +/- 20%, TH	B32922_10.5mm

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