

Variant: 001
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PMP22495 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPC B1	1		PMP22495	Any	Printed Circuit Board	
2	C1	1	2200pF	DE1E3RA222MN4AN01F	MuRata	CAP, CERM, 2200 pF, 250 V, +/- 20%, E, Dia 9mm	Dia 9mm
3	C2	1	100uF	LLS2G101MELZ	Nichicon	CAP, AL, 100 uF, 400 V, +/- 20%, TH	D22xL27mm
4	C3	1	100uF	ECA-1EHG101	Panasonic	CAP, AL, 100 uF, 25 V, +/- 20%, TH	D6.3xL11.2mm
5	C4	1	560uF	EKZE350ELL561MJ25S	Chemi-Con	CAP, AL, 560 uF, 35 V, +/- 20%, TH	D10xL25mm
6	C5	1	2.2uF	C2012X7R1H1225K125AC	TDK	CAP, CERM, 2.2 uF, 50 V, +/- 10%, X7R, 0805	805
7	C6	1	0.22uF	8.90324E+11	Würth Elektronik	CAP, Film, 0.22 uF, 275 V, +/- 10%, TH	15x7mm
8	C8	1	1uF	CL21B105KBFNNNE	Samsung Electro-Mechanics	CAP, CERM, 1 uF, 50 V, +/- 10%, X7R, 0805	805
9	C9	1	0.047uF	C1608X7R1H473K080AA	TDK	CAP, CERM, 0.047 uF, 50 V, +/- 10%, X7R, 0603	603
10	C10, C14, C19, C20	4	0.01uF	GRM188R71H103KA01D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0603	603
11	C11	1	0.056uF	GRM188R71E563KA01D	MuRata	CAP, CERM, 0.056 uF, 25 V, +/- 10%, X7R, 0603	603
12	C12, C18	2	100pF	GRM1885C1H101JA01D	MuRata	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	603
13	C13	1	220pF	C0603C221J5GACTU	Kemet	CAP, CERM, 220 pF, 50 V, +/- 5%, C0G/NP0, 0603	603
14	C15, C16, C21	3	0.1uF	GRM188R71H104KA93D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	603
15	C17	1	1uF	GRJ188R71E105KE11D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	603
16	C101	1	1500pF	GRM31BR72J152KW01L	MuRata	CAP, CERM, 1500 pF, 630 V, +/- 10%, X7R, 1206	1206
17	C102	1	1000pF	GR442QR73D102KW01L	MuRata	CAP, CERM, 1000 pF, 2000 V, +/- 10%, X7R, 1808	1808
18	C103	1	0.022uF	ECW-F6223HL	Panasonic	CAP, Film, 0.022 uF, 630 V, +/- 3%, TH	12.5x6.2mm
19	D1	1	600V	Z4DGP406L-HF	Comchip Technology	Diode, P-N-Bridge, 600 V, 4 A, Z4-D	Z4-D
20	D2, D6, D10, D12	4	100V	MMSD4148T1G	ON Semiconductor	Diode, Switching, 100 V, 0.2 A, SOD-123	SOD-123
21	D3, D5	2	150V	MBR20H150CTG	ON Semiconductor	Diode, Schottky, 150 V, 10 A, TH	TO-220AB
22	D4	1	800V	CMF04(TE12LQ)	Toshiba	Diode, Superfast Rectifier, 800 V, 0.5 A, M-FLAT	M-FLAT
23	D7	1	15V	MMSZ4702-E3-08	Vishay-Semiconductor	Diode, Zener, 15 V, 500 mW, SOD-123	SOD-123
24	D8	1	100V	BAV99LT1-D	ON Semiconductor	Diode, Switching, 100 V, 0.215 A, SOT-23	SOT-23
25	D9	1	12V	MMSZ4899-HE3-08	Vishay-Semiconductor	Diode, Zener, 12 V, 500 mW, AEC-Q101, SOD-123	SOD-123
26	D11	1	91V	MMSZ5270BT1G	ON Semiconductor	Diode, Zener, 91 V, 500 mW, SOD-123	SOD-123
27	F1	1		39213150000	Littelfuse	Fuse, 3.15 A, 250VAC/VDC, TH	8x8.5x4mm
28	H1, H2	2		634-10ABP	Wakefield Solutions	Heat Sink, TO-220, TH	16.26x25.4x16.26 mm
29	J1	1		ED120/2DS	On-Shore Technology	Terminal Block, 5.08 mm, 2x1, Brass, TH	2x1 5.08 mm Terminal Block
30	L1	1	100uH	7447021	Würth Elektronik	Inductor, Toroid, Ferrite, 100 uH, 2.5 A, 0.08 ohm, TH	D15.5xT8mm
31	L3	1	2.2mH	744823422	Würth Elektronik	Coupled inductor, 2.2 mH, 0.03 ohm, TH	13x22x17.5mm
32	Q1	1	700V	IPN70R2K0P7SAUMA1	Infineon Technologies	MOSFET, N-CH, 700 V, 30 A, PG-SOT223	PG-SOT223
33	Q2	1	60V	2N7002	Fairchild Semiconductor	MOSFET, N-CH, 60 V, 115 A, SOT-23	SOT-23
34	Q3	1	700V	IPD70R360P7SAUMA1	Infineon Technologies	MOSFET, N-CH, 700 V, 12.5 A, DPAK	DPAK
35	Q4, Q5	2	40 V	MMBT3904LT1G	ON Semiconductor	Transistor, NPN, 40 V, 0.2 A, SOT-23	SOT-23
36	Q6	1	400 V	STN83003	STMicroelectronics	Transistor, NPN, 400 V, 1.5 A, SOT-223	SOT-223
37	R1, R32, R33	3	0	RMCF0603ZTOR00	Stackpole Electronics Inc	RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
38	R2	1	0.01	CSR2512C0R01F	Riedon	RES, 0.01, 1%, 3 W, AEC-Q200 Grade 0, 2512	2512
39	R3, R14, R25	3	10.0k	CRCW060310K0FKFEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
40	R4, R15, R21	3	100k	CRCW0603100KFKFEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
41	R5	1	48.7	RC0603FR-0748R7L	Yageo	RES, 48.7, 1%, 0.1 W, 0603	603
42	R6, R7	2	1.00Meg	MCR18E2HF1004	Rohm	RES, 1.00 M, 1%, 0.25 W, 1206	1206
43	R8	1	1.0Meg	CRCW06031M00JNEA	Vishay-Dale	RES, 1.0 M, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	603
44	R9	1	15.0k	CRCW060315K0FKFEA	Vishay-Dale	RES, 15.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
45	R10	1	100k	RT0603BRD07100KL	Yageo America	RES, 100 k, 0.1%, 0.1 W, 0603	603
46	R11	1	0.15	CSRN2010FKR150	Stackpole Electronics Inc	RES, 0.15, 1%, 1 W, 2010	2010
47	R12, R13, R30, R31	4	1.00k	CRCW06031K00FKFEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
48	R16	1	20.0k	CRCW060320K0FKFEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
49	R17	1	165k	CRCW0603165KFKFEA	Vishay-Dale	RES, 165 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
50	R18	1	51.1k	CRCW060351K1FKFEA	Vishay-Dale	RES, 51.1 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
51	R19	1	130k	CRCW0603130KFKFEA	Vishay-Dale	RES, 130 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
52	R20	1	11.5k	RT0603BRD0711K5L	Yageo America	RES, 11.5 k, 0.1%, 0.1 W, 0603	603
53	R22	1	200k	CRCW2512200KJNEG	Vishay-Dale	RES, 200 k, 5%, 1 W, AEC-Q200 Grade 0, 2512	2512
54	R23, R28	2	4.99k	CRCW06034K99FKFEA	Vishay-Dale	RES, 4.99 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
55	R24	1	127	CRCW0603127RFKFEA	Vishay-Dale	RES, 127, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
56	R26, R27	2	470k	CRCW1206470KJNEA	Vishay-Dale	RES, 470 k, 5%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
57	R29	1	26.7k	CRCW060326K7FKFEA	Vishay-Dale	RES, 26.7 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
58	R101	1	14	CRCW251214R0FKKEG	Vishay-Dale	RES, 14.0, 1%, 1 W, AEC-Q200 Grade 0, 2512	2512
59	R102	1	4.02k	RC1206FR-074K02L	Yageo America	RES, 4.02 k, 1%, 0.25 W, 1206	1206
60	T1	1		RLT-1355	Renco	OUTPUT INDUCTOR FOR PMP22495	PTH_1IN09_1IN45
61	T2	1		RLT-1354	Renco	AC FORWARD TRANSFORMER FOR PMP22495	PTH_1IN40_1IN47
62	TP1, TP4	2		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
63	TP2	1		5012	Keystone	Test Point, Multipurpose, White, TH	White Multipurpose Testpoint
64	TP3	1		5010	Keystone	Test Point, Multipurpose, Red, TH	Red Multipurpose Testpoint
65	U1	1		UCC5304DWV	Texas Instruments	4-A/6-A, Single-Channel Reinforced Isolation Gate Driver with High Noise Immunity, DWV0008A (SOIC-8)	DWV0008A
66	U2	1		UCC2897APWR	Texas Instruments	Advanced Active Clamp PWM Controller with Current-Mode Control, -40 to +125 degC, 20-pin TSSOP (PW), Green (RoHS & no Sb/Br)	PW0020A
67	U3	1		VOL618A-2T	Vishay-Semiconductor	Optocoupler, 5 kV, 63-125% CTR, SMT	8x2x4mm
68	U4	1		TL103WAID	Texas Instruments	Dual Operational Amplifier with Internal Reference, 3 to 32 V, -40 to 105 degC, 8-pin SOIC (D8), Green (RoHS & no Sb/Br)	D0008A

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