

PWR798 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB	1		PWR655	Amy	Printed Circuit Board	
2	C1, C16	2	1uF	C1608X7R1E105K090AB	TDK	CAP. CERM, 1uF, 25V, +/-10%, X7R, 0603	0603
3	C3, C18	2	10uF	C2012X5R1E106K125AB	TDK	CAP. CERM, 10uF, 25V, +/-10%, X5R, 0805	0805
4	C7, C21	2	4.7uF	GRM188R61C475KAAJ	MuRata	CAP. CERM, 4.7uF, 16V, +/-10%, X5R, 0603	0603
5	C8, C22	2	0.047uF	GRM155R71E473KA88D	MuRata	CAP. CERM, 0.047uF, 25V, +/-10%, X7R, 0402	0402
6	C9, C10	2	10uF	GRM21BR61A106KE19L	MuRata	CAP. CERM, 10 uF, 10 V, +/- 10%, X5R, 0805	0805
7	C13, C23, C24, C28	4	10uF	C1608X5R1A106M	TDK	CAP. CERM, 10uF, 10V, +/-20%, X5R, 0603	0603
8	C32	1	1000pF	GRM216R71E102KA01D	MuRata	CAP. CERM, 1000 pF, 25 V, +/- 10%, X7R, 0805	0805
9	D5, D7, D8	3	Green	LTS1-C190GKT	Lite-On	LED, Green, SMD	1.6x0.8x0.8mm
10	H1, H2, H3, H4	4		SJ-5303 (CLEAR)	3M	Bumpon, Hemisphere, 0.44 X 0.20, Clear	Transparent Bumpon
11	J1, J2, J3, J4, J6	5	2x1	1727010	Phoenix Contact	Conn Term Block, 2POS, 3.81mm, TH	2POS Terminal Block
12	J5	1		0473460001	Molex	Connector, Receptacle, Micro-USB Type B, R/A, Bottom Mount SMT	7.5x2.45x5mm
13	J7	1		22-05-3041	Molex	Header (friction lock), 100mil, 4x1, R/A, TH	4x1 R/A Header
14	J8	1		22-05-3041	Molex	Header, 100mil, 4x1, R/A, TH	4x1 R/A Header
15	JP1, JP3, JP12	3		PEC03SAAN	Sullins Connector Solutions	Header, 100mil, 3x1, Tin plated, TH	Header, 3 PIN, 100mil, Tin
16	JP2, JP4, JP5	3		PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin, TH	Header, 2 PIN, 100mil, Tin
17	JP6, JP7, JP8, JP9, JP10, JP11	6		PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin plated, TH	Header, 2 PIN, 100mil, Tin
18	L1	1	1uH	IHLP2020BZER1R0M11	Vishay-Dale	Inductor, Shielded Drum Core, Powdered Iron, 1uH, 7A, 0.0181 ohm, SMD	5.49x2x5.18mm
19	L2	1	1uH	74438356010	Würth Elektronik	Inductor, Shielded, 1 uH, 7.2 A, 0.012 ohm, SMD	4.1x4.1mm
20	LBL1	1		TH1-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650"H x 0.200"W
21	R2, R18, R22, R23	4	0	CRCW25120000Z0EG	Vishay-Dale	RES, 0, 5%, 1 W, 2512	2512
22	R4, R37, R47	3	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
23	R5, R15, R30, R31	4	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0 ohm, 5%, 0.063W, 0402	0402
24	R6, R7, R12, R13, R16, R17, R29, R35, R44	9	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0k ohm, 1%, 0.063W, 0402	0402
25	R8	1	130	CRCW0402130RFKED	Vishay-Dale	RES, 130 ohm, 1%, 0.063W, 0402	0402
26	R9	1	768	CRCW0402768RFKED	Vishay-Dale	RES, 768 ohm, 1%, 0.063W, 0402	0402
27	R10	1	10k	3266W-1-103LF	Bourns	Trimmer, 10k ohm, 0.25W, TH	4.5x8x6.7mm
28	R32	1	4.7k	CRCW04024K70JNED	Vishay-Dale	RES, 4.7k ohm, 5%, 0.063W, 0402	0402
29	R33	1	5.23k	CRCW04025K23FKED	Vishay-Dale	RES, 5.23k ohm, 1%, 0.063W, 0402	0402
30	R34	1	30.1k	CRCW040230K1FKED	Vishay-Dale	RES, 30.1k ohm, 1%, 0.063W, 0402	0402
31	R36, R38, R39	3	2.21k	CRCW04022K21FKED	Vishay-Dale	RES, 2.21k ohm, 1%, 0.063W, 0402	0402
32	S1	1		KSR221GLFS	C and K Components	Switch, Normally open, 2.3N force, 200k operations, SMD	KSR
33	SH-JP1, SH-JP2, SH-JP3, SH-JP4, SH-JP5, SH-JP9, SH-JP10, SH-JP12	8	1x2	969102-0000-DA	3M	Shunt, 100mil, Gold plated, Black	Shunt
34	TP1, TP6, TP10	3	SMT	5016	Keystone	Test Point, Compact, SMT	Testpoint_Keystone_Compact
35	TP2, TP3, TP4, TP5, TP7, TP8, TP9, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19, TP20, TP21, TP22, TP23, TP24, TP25, TP26	23	SMT	5015	Keystone	Test Point, Miniature, SMT	Testpoint_Keystone_Miniature
36	TP27, TP28	2		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
37	U1	1		BQ25890RTWR	Texas Instruments	i2C Controlled 5A Single Cell Charger with NVDC Power Path Management and MaxCharge™ High Voltage Adapter Support, RTW0024H	RTW0024H
38	U2	1		BQ25898CYFFR	Texas Instruments	i2C Controlled 4A Single Cell NVDC Power Path Management with MaxCharge™ High Voltage Adapter Support, YFF0042-C01	YFF0042-C01
39	C2, C12, C15, C17, C27, C30	0	1000pF	GRM1885C1H102JA01D	MuRata	CAP. CERM, 1000 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
40	C4	0	1000pF	GRM216R71E102KA01D	MuRata	CAP. CERM, 1000 pF, 25 V, +/- 10%, X7R, 0805	0805
41	C5, C6, C20	0	22uF	GRM21BR61E226ME44L	MuRata	CAP. CERM, 22 uF, 25 V, +/- 20%, X5R, 0805	0805
42	C11, C26	0	10uF	GRM21BR61A106KE19L	MuRata	CAP. CERM, 10 uF, 10 V, +/- 10%, X5R, 0805	0805
43	C14, C25, C29, C31	0	10uF	C1608X5R1A106M	TDK	CAP. CERM, 10uF, 10V, +/-20%, X5R, 0603	0603
44	C19	0	10uF	C2012X5R1E106K125AB	TDK	CAP. CERM, 10 uF, 25 V, +/- 10%, X5R, 0805	0805
45	C33	0	0.47uF	C1005X5R1A474K050BB	TDK	CAP. CERM, 0.47 uF, 10 V, +/- 10%, X5R, 0402	0402
46	D1, D4	0	40V	ZLLS350TA	Diodes Inc.	Diode, Schottky, 40V, 0.38A, SOD-523	SOD-523
47	D2, D3, D6	0	30V	B130LAW-7-F	Diodes Inc.	Diode, Schottky, 30 V, 1 A, SOD-123	SOD-123
48	FID1, FID2, FID3, FID4, FID5, FID6	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
49	R1	0	0	CRCW25120000Z0EG	Vishay-Dale	RES, 0, 5%, 1 W, 2512	2512
50	R3, R14, R45, R46	0	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
51	R11	0	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
52	R19, R21, R26, R27	0	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0k ohm, 1%, 0.063W, 0402	0402
53	R20, R41, R42, R43, R48, R49	0	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0 ohm, 5%, 0.063W, 0402	0402
54	R24, R25, R28, R40	0	15k	CRCW040215K0JNED	Vishay-Dale	RES, 15 k, 5%, 0.063 W, 0402	0402
55	SH-JP6, SH-JP7, SH-JP8, SH-JP11	0	1x2	969102-0000-DA	3M	Shunt, 100mil, Gold plated, Black	Shunt

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