

Variant: 002
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SR148 REV B Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB1	1		SR148	Any	Printed Circuit Board	
2	C1, C2, C3, C4	4	0.47uF	GRM21BR72A474KA73L	MuRata	CAP, CERM, 0.47 uF, 100 V, +/- 10%, X7R, 0805	0805
3	C8	1	33uF	EEE-FK2A330P	Panasonic	CAP, AL, 33 uF, 100 V, +/- 20%, 0.7 ohm, AEC-Q200 Grade 2, SMD	SMT Radial G
4	C9, C10, C11, C12, C13	5		GRM32EC72A106KE05L	Murata	10uF ±10% 100V Ceramic Capacitor X7S 1210 (3225 Metric)	1210
5	C14	1	0.01uF	CGA3E2X8R2A103K080AD	TDK	CAP, CERM, 0.01 uF, 100 V,+/- 10%, X8R, AEC-Q200 Grade 0, 0603	0603
6	C23	1	2.2uF	GRT155C71A225KE13	MuRata	CAP, CERM, 2.2 uF, 10 V,+/- 10%, X7S, AEC-Q200 Grade 1, 0402	0402
7	C26, C27, C28, C29	4	22uF	CGA6P3X7R1E226M250AB	TDK	Cap Ceramic 22uF 25V X7R 20% Pad SMD 1210 +125°C Automotive T/R	1210
8	C30, C31	2	0.1uF	C0603C104K5RACTU	Kemet	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603	0603
9	C32	1	0.1uF	CGA2B3X7R1E104K050BB	TDK	CAP, CERM, 0.1 uF, 25 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
10	C33	1	0.01uF	CGA2B3X8R1H103K050BB	TDK	CAP, CERM, 0.01 uF, 50 V,+/- 10%, X8R, AEC-Q200 Grade 0, 0402	0402
11	C34	1	100pF	CGA2B2C0G1H101J050BA	TDK	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0402	0402
12	C35	1	47pF	CGA2B2C0G1H470J050BA	TDK	CAP, CERM, 47 pF, 50 V,+/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0402	0402
13	C36	1	1000pF	GRM1555C1H102JA01D	MuRata	CAP, CERM, 1000 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
14	C37	1	100uF	ECASD61C107M012KA0	Murata	100 uF 16 V Aluminum - Polymer Capacitors 2917 (7343 Metric) 12mOhm 2000 Hrs @ 105°C	2917
15	FID1, FID2, FID3, FID4, FID5, FID6	6		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
16	H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
17	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
18	H9, H10	2		MJ58MPP	Kanebridge	MACHINE SCREW PAN PHILLIPS M5, 8mm long	SCREW
19	H11, H12	2		5580510	Würth Elektronik	CONN RING CIRC 7AWG M5 CRIMP	CRIMP LUG
20	J1	1		282856-2	TE Connectivity	Thermal Block, 5 mm, 2-pole, Tin, TH	TH, 2-Leads, Body 10x10mm, Pitch 5mm
21	J2, J3	2		74655095R	Würth Electronics	WP-THRSH 8 Pin PCB Screw Terminal, 85A, Solder, M5, Vertical	CONN_TERM_10MM 0_10MM0
22	J4	1		TSW-112-07-G-S	Samtec	Header, 100mil, 12x1, Gold, TH	12x1 Header
23	L1	1	3.3uH	XGL6060-332MEC	Coilcraft	Shielded Power Inductors 3.3uH 20% tol, 6.5mOhm 16.6A	SMT_6MM51_6MM7 1
24	L2	1	4.7uH	VCUD128T-4R7MS8	Cyntec	Power Choke Coil 4.7uH 20% 100kHz 4.7mOhm 27A AECQ200 13.3x12.8x8.0mm SMT	SMT_IND_13MM3_12 MM8
25	R1	1	0	ERJ-6GEY0R00V	Panasonic	RES, 0, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
26	R7	1	100k	AC0402FR-07100KL	Yageo America	RES, 100 k, 1%, 0.0625 W, AEC-Q200 Grade 0, 0402	0402
27	R8	1	200k	RC0603FR-07200KL	Yageo	RES, 200 k, 1%, 0.1 W, 0603	0603
28	R10	1	1	CRCW04021R00FKED	Vishay-Dale	RES, 1.00, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
29	R11	1	1m	KRL3216E-C-R001-J-T5	Susumu	1 mOhms ±5% 1.5W Chip Resistor Wide 1206 (3216 Metric), 0612 Automotive AEC-Q200, Current Sense Metal Foil	0612
30	R13, R16, R26	3	54.9k	CRCW040254K9FKED	Vishay-Dale	RES, 54.9 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
31	R15, R17	2	49.9	ERJ-2RKF49R9X	Panasonic	RES, 49.9, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
32	R19	1	30.1k	CRCW040230K1FKED	Vishay-Dale	RES, 30.1 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
33	R20	1	8.66k	CRCW04028K66FKED	Vishay-Dale	RES, 8.66 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
34	R22	1	23.7k	CRCW040223K7FKED	Vishay-Dale	RES, 23.7 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
35	R24	1	90.9k	CRCW040290K9FKED	Vishay-Dale	RES, 90.9 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
36	R27	1	0	RK73Z1ETTP	KOA Speer	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
37	R28	1	4.99k	ERA-2AEB4991X	Panasonic	RES, 4.99 k, 0.1%, 0.063 W, 0402	0402
38	SH-J1, SH-J2	2		M7582-05	Harwin	Single Operation 2.54mm Pitch Open Top Jumper Socket	Single Operation 2.54mm Pitch Open Top Jumper Socket
39	TP1, TP2, TP3, TP4	4		5019	Keystone	Test Point, Miniature, SMT	Test Point, Miniature, SMT
40	U1	1		LMG708B0	Texas Instruments	LMG708B0	VQFN-FCRLF21
41	C25	0	0.1uF	CGA2B3X7R1E104K050BB	TDK	CAP, CERM, 0.1 uF, 25 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
42	R9, R12	0	10.0k	ERJPA2F1002X	Panasonic	RES, 10.0 k, 1%, 0.2 W, AEC-Q200 Grade 0, 0402	0402
43	R14, R25	0	0	RK73Z1ETTP	KOA Speer	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
44	R21	0	90.9k	CRCW040290K9FKED	Vishay-Dale	RES, 90.9 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
45	R29	0	100k	AC0402FR-07100KL	Yageo America	RES, 100 k, 1%, 0.0625 W, AEC-Q200 Grade 0, 0402	0402