

Variant: 001  
Generated: 12/12/2025 3:42 PM  
TID #: N/A



## SR112 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB1	1		SR112	Any	Printed Circuit Board	
2	C1, C16, C17, C32	4	0.1uF	GCJ188R72A104KA01D	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
3	C2	1	10µF	CGA6P1X7R2A106K250AC	TDK	10 µF ±10% 100V Ceramic Capacitor X7R 1210 (3225 Metric)	1210
4	C3, C4, C10, C11	4	4.7uF	GCM32DC72A475KE02L	MuRata	CAP, CERM, 4.7 µF, 100 V, +/- 10%, X7S, AEC-Q200 Grade 1, 1210	1210
5	C5, C6, C8, C9	4	0.1uF	CGA4J2X7R2A104K125AA	TDK	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
6	C7	1	68uF	EEV-FK1K680Q	Panasonic	CAP, AL, 68 uF, 80 V, +/- 20%, 0.32 ohm, AEC-Q200 Grade 2, SMD	SMT Radial H13
7	C18, C35	2	1uF	CGA3E3X5R1H105M080AB	TDK	CAP, CERM, 1 µF, 50 V, +/- 20%, X5R, AEC-Q200 Grade 3, 0603	0603
8	C20	1	0.01uF	CGA3E2C0G1H103J080AA	TDK	CAP, CERM, 0.01 uF, 50 V, +/- 5%, C0G/NP0, AEC-Q200 Grade 1, 0603	0603
9	C22	1	0.1uF	CGA2B3X7R1H104K050BB	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
10	C23, C24, C25, C26, C27, C28	6	22µF	CGA6P3X7R1E226M250AB	TDK	Cap Ceramic 22uF 25V X7R 20% Pad SMD 1210 +125°C Automotive T/R	1210
11	C34	1	1uF	GCM188R71C105MA64D	MuRata	CAP, CERM, 1 uF, 16 V, +/- 20%, X7R, AEC-Q200 Grade 1, 0603	0603
12	D1	1		NRVB120VLSFT1G	On Semi	Diode Schottky 20 V 1A Surface Mount SOD-123FL	SOD-123
13	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
14	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
15	J1, J4	2		691 101 710 002	Würth Elektronik	Terminal Block, 5 mm, 2x1, Tin, TH	Terminal Block, 5 mm, 2x1, TH
16	J2	1		5-146254-3	TE Connectivity	Header, 100mil, 3x2, Tin, TH	Header, 100mil, 3x2, TH
17	J3	1		5-146278-8	TE Connectivity	Header, 100mil, 8x1, Tin, TH	Header, 8x1, 100mil, TH
18	L1	1		ACM12V-701-2PL-TL00	TDK	Coupled inductor, ohm, AEC-Q200 Grade 1, SMD	12x11mm
19	L2	1	6.8uH	VCHA105D-6R8MS6	Cyntec	Inductor, Drum Core, Powdered Iron, 6.8 µH, 10.8 A, 0.014 ohm, AEC-Q200 Grade 0, SMD	10.85 × 10mm × 5.2mm
20	L3	1	3.3uH	XGL6060-332MEC	Coilcraft	Shielded Power Inductors 3.3uH 20% tol, 6.5mOhm 16.6A	SMT_6MM51_6MM71
21	LBL1	1		TH14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650 x 0.200 inch
22	R1	1	0.51	ERJ-3RQFR51V	Panasonic	RES, 0.51, 1%, 0.1 W, AEC-Q200 Grade 1, 0603	0603
23	R2, R3, R7	3		CRCW060349K9FKEA	Vishay	49.9 kOhms ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thick Film	0603
24	R4	1	40.2k	CRCW060340K2FKEA	Vishay-Dale	RES, 40.2 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
25	R5	1	13.3k	CRCW060313K3FKEA	Vishay-Dale	RES, 13.3 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
26	R6	1	226k	CRCW0603226KFKEA	Vishay-Dale	RES, 226 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
27	R8	1	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
28	R9	1	49.9	CRCW060349R9FKEA	Vishay-Dale	RES, 49.9, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
29	R10	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
30	R11	1	0	RMCF0603ZT0R00	Stackpole Electronics Inc	RES, 0, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
31	R12	1	31.6k	CRCW060331K6FKEA	Vishay-Dale	RES, 31.6 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
32	R13	1	21.0k	CRCW060321K0FKEA	Vishay-Dale	RES, 21.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
33	R14	1	86.6k	CRCW060386K6FKEA	Vishay-Dale	RES, 86.6 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
34	SH-J1, SH-J2, SH-J3	3	1x2	SNT-100-BK-G	Samtec	Shunt, 100mil, Gold plated, Black	Shunt
35	TP1, TP2, TP3, TP4, TP5, TP6, TP7	7		5019	Keystone	Test Point, Miniature, SMT	Test Point, Miniature, SMT
36	U1	1		LM67680RZYRQ1	Texas Instruments	65V, 8A Buck Converters Optimized for Inverting or Non-Inverting Outputs	WQFN-FCRLF26
37	VIN_S	1		5015	Keystone	Test Point, Miniature, SMT	Testpoint_Keystone_Miniature
38	C12, C13, C14, C15	0	4.7uF	GCM32DC72A475KE02L	MuRata	CAP, CERM, 4.7 µF, 100 V, +/- 10%, X7S, AEC-Q200 Grade 1, 1210	1210
39	C21, C33	0	10pF	GRM1885C1H100JA01D	MuRata	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
40	C29, C30	0	22µF	CGA6P3X7R1E226M250AB	TDK	Cap Ceramic 22uF 25V X7R 20% Pad SMD 1210 +125°C Automotive T/R	1210
41	C31	0	82uF	8.75105E+11	Würth Elektronik	CAP, Aluminum Polymer, 82 uF, 16 V, +/- 20%, 0.03 ohm, D6.3xL5.8mm SMD	D6.3xL5.8mm
42	FID1, FID2, FID3, FID4, FID5, FID6	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A