

SR Card REV B Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C1, C10, C11, C14, C29, C30, C31, C34, C37	9	0.1uF	GCM155R71H104KE02D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
2	C2, C3, C8, C16, C18, C26	6	1uF	CGA3E1X7R1E105M080AC	TDK	CAP, CERM, 1 uF, 25 V, +/- 20%, X7R, AEC-Q200 Grade 1, 0603	0603
3	C4, C5, C17, C27, C35, C36	6	100pF	CC0402KRX7R9BB101	Yageo America	CAP, CERM, 100 pF, 50 V, +/- 10%, X7R, 0402	0402
4	C6, C9, C20, C21, C22, C23, C24, C25, C32, C33	10	0.1uF	GCM21BR72A104KA37L	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
5	C7, C12, C13	3	1uF	GRT155C71A105KE13D	MuRata	CAP, CERM, 1 uF, 10 V, +/- 10%, X7S, AEC-Q200 Grade 1, 0402	0402
6	C15	1	0.01uF	CGA2B3X7R1H103K050BB	TDK	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
7	C19, C28	2	3300pF	CGA2B2X7R1H332K050BA	TDK	CAP, CERM, 3300 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
8	D1, D2	2	100V	1N4148WS-HG3-08	Vishay-Semiconductor	Diode, Switching, 100 V, 150 mA, AEC-Q101, SOD-323	SOD-323
9	D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14	12	30V	RB521S30T1G	ON Semiconductor	Diode, Schottky, 30 V, 0.2 A, AEC-Q101, SOD-523	SOD-523
10	D15, D17	2	100V	PMEG10020ELRX	Nexperia	Diode, Schottky, 100 V, 2 A, AEC-Q101, SOD-123W	SOD-123W
11	D16, D18	2	15V	SZMM3Z15VST1G	ON Semiconductor	Diode, Zener, 15 V, 300 mW, AEC-Q101, SOD-323	SOD-323
12	D19, D20	2	4.7V	EDZVFHT2R4.7B	Rohm	Diode, Zener, 4.7 V, 150 mW, AEC-Q101, SOD-523	SOD-523
13	J1	1		FTSH-107-01-L-D-RA	Samtec	Header, 50mil, 7x2, R/A, TH	Header, 7x2, 50mil, R/A, TH
14	J2, J3	2		575-4	Keystone	Standard Banana Jack, Uninsulated, 5.5mm	Keystone 575-4
15	J4	1		FTSH-102-01-L-D-RA	Samtec	Connector Unshrouded Header HDR 4 POS 1.27mm Solder RA Thru-Hole	HDR4
16	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12	12		IAUTN06S5N008T	Infineon Technologies	Insulated-Gate Field-Effect Transistor (IGFET), N-Channel, Enhancement, Body Diode, Pin 1 Source, 2 Source, 3 Source, 4 Source, 5 Source, 6 Source, 7 Source, 8 Gate, 9 Drain, 10 Drain, 11 Drain, 12 Drain, 13 Drain, 14 Drain, 15 Drain, 16 Drain, 16 Pins	
17	Q13, Q14	2	60V	NVMFS5C604NLT1G	ON Semiconductor	MOSFET, N-CH, 60 V, 287 A, AEC-Q101, DFN5 5x6mm	DFN5 5x6mm
18	R1, R2, R9, R10, R15, R16, R26, R30, R33, R35, R36, R39, R42, R60, R61, R62, R63, R64, R65, R66, R67, R68, R70, R71	24	0	CRCW04020000Z0EDHP	Vishay-Dale	RES, 0, 0%, 0.2 W, AEC-Q200 Grade 0, 0402	0402
19	R3, R4, R22, R44	4	10.0k	RMCF0402FT10K0	Stackpole Electronics Inc	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
20	R5, R7, R18, R21, R37, R69	6	2	CRCW06032R00JNEA	Vishay-Dale	RES, 2.0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
21	R6, R8, R38	3	2.2	RL0510S-2R2-F	Susumu Co Ltd	RES, 2.20, 1%, 0.167 W, AEC-Q200 Grade 0, 0402	0402
22	R11, R14, R45, R51, R54	5	10.0k	ERJPA2F1002X	Panasonic	RES, 10.0 k, 1%, 0.2 W, AEC-Q200 Grade 0, 0402	0402
23	R12, R48, R49, R52, R53, R55	6	10	RMCF0402JT10R0	Stackpole Electronics Inc	RES, 10.0, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
24	R13, R24, R43	3	100	CRCW0402100RFKED	Vishay-Dale	RES, 100, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
25	R17, R19, R20, R23, R25, R27, R28, R31, R32, R34	10	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
26	R29, R40, R41, R46, R47, R50, R56, R57, R58, R59	10	500u	CSSH0805FTL500	Stackpole Electronics	500 uOhms ±1% 1W Chip Resistor 0805 (2012 Metric) Automotive AEC-Q200, Current Sense Metal Element	0805
27	R80, R81, R82, R83	4	1.00k	ERA-2APB102X	Panasonic	RES, 1.00 k, 0.1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
28	RT1, RT2	2		TMP6131QDECRQ1	Texas Instruments	Automotive ±1% tolerance 10kΩ linear thermistor available in an 0402 package option 2-X1SON -40 to 125	0402
29	U1, U3, U6, U8	4		UCC27332QDGNRQ1	Texas Instruments	Single 9-A High Speed Low-Side MOSFET Driver W Enable	VSSOP8
30	U2, U7	2		ISO7720FQDRQ1	Texas Instruments	Automotive, High Speed, Robust EMC Reinforced Dual-Channel Digital Isolator, D0008A (SOIC-8)	D0008A
31	U4	1		TPS71733QDRVRQ1	Texas Instruments	Low Noise, High-Bandwidth PSRR Low-Dropout 150mA Linear Regulator for Automotive Applications, DRV0006A (WSON-6)	DRV0006A
32	U5	1		UCC21222QDRQ1	Texas Instruments	Half-Bridge Gate Driver IC CMOS/TTL 16-SOIC	SOIC16