

SLHR003 REV C Bill of Materials



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB1	1		SLHR003	Any	Printed Circuit Board	
2	C1	1	0.022uF	08051C223KAT2A	AVX	CAP, CERM, 0.022 uF, 100 V, +/- 10%, X7R, 0805	0805
3	C3, C27	2	4.7uF	C1210C475K8RACTU	Kemet	CAP, CERM, 4.7 uF, 10 V, +/- 10%, X7R, 1210	1210
4	C4, C5, C28	3	0.1uF	08055C104JAT2A	AVX	CAP, CERM, 0.1 uF, 50 V, +/- 5%, X7R, 0805	0805
5	C6	1	180pF	08055A181JAT2A	AVX	CAP, CERM, 180 pF, 50 V, +/- 5%, C0G/NP0, 0805	0805
6	C8, C9, C10, C11, C12, C13, C31, C32, C33, C34	10	22uF	C3225X7R1C226K250AC	TDK	CAP, CERM, 22 uF, 16 V, +/- 10%, X7R, 1210	1210
7	C14	1	0.047uF	08055C473JAT2A	AVX	CAP, CERM, 0.047 uF, 50 V, +/- 5%, X7R, 0805	0805
8	C15, C37	2	0.47uF	C2012X7R1H474K125AB	TDK	CAP, CERM, 0.47 uF, 50 V, +/- 10%, X7R, 0805	0805
9	C16, C18, C38, C40	4	330uF	T530X337M010ATE006	Kemet	CAP, Tantalum Polymer, 330 uF, 10 V, +/- 20%, 0.006 ohm, 7343-43 SMD	7343-43
10	C20, C42	2	0.1uF	C1206C104J5RACTU	Kemet	CAP, CERM, 0.1 uF, 50 V, +/- 5%, X7R, 1206	1206
11	C25, C26	2	10uF	12103C106KAT2A	AVX	CAP, CERM, 10 uF, 25 V, +/- 10%, X7R, 1210	1210
12	D1, D4, D7, D8	4	5.1V	DZ23C5V1-E3-18	Vishay-Semiconductor	Diode, Zener, 5.1 V, 300 mW, AEC-Q101, SOT-23	SOT-23
13	D2, D5	2	Orange	LTST-C170KFKT	Lite-On	LED, Orange, SMD	LED 0805
14	D3, D6	2	30V	B230-13-F	Diodes Inc.	Diode, Schottky, 30 V, 2 A, SMB	SMB
15	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
16	H6, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
17	J1, J3, J6, J7, J12, J13	6		TSW-102-07-G-S	Samtec	Header, 100mil, 2x1, Gold, TH	2x1 Header
18	J4, J9, J14, J17	4		131-5031-00	Tektronix	Compact Probe Tip Circuit Board Test Points, TH, 25 per	TH Scope Probe
19	J18	1		901-144-8RFX	Amphenol RF	SMA Straight Jack, Gold, 50 Ohm, TH	SMA Straight Jack, TH
20	J20, J21, J22, J23	4		39544-3004	Molex	Terminal Block, 4x1, 5.08mm, TH	4x1 Terminal Block
21	L1, L2	2	1.8uH	SER1360-182KLB	Coilcraft	Inductor, Shielded E Core, Ferrite, 1.8 uH, 13 A, 0.0026 ohm, AEC-Q200 Grade 3, SMD	SER1360
22	LBL1	1		THT-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
23	R2, R24	2	2.00k	CRCW08052K00FKEA	Vishay-Dale	RES, 2.00 k, 1%, 0.125 W, 0805	0805
24	R4, R8, R10, R12, R14, R19, R20, R26, R30, R33, R34, R36, R37, R43	14	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, 0805	0805
25	R9, R31	2	1.00k	CRCW08051K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.125 W, 0805	0805
26	R13	1	511k	CRCW0805511KFKEA	Vishay-Dale	RES, 511 k, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
27	R15	1	45.3k	CRCW080545K3FKEA	Vishay-Dale	RES, 45.3 k, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
28	R16	1	10.2k	ERJ-6ENF1022V	Panasonic	RES, 10.2 k, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
29	R21	1	10.0k	RG2012P-103-B-T5	Susumu Co Ltd	RES, 10.0 k, 0.1%, 0.125 W, 0805	0805
30	R22	1	4.70k	RG2012P-472-B-T5	Susumu Co Ltd	RES, 4.75 k, 0.1%, 0.125 W, 0805	0805
31	R40	1	95.3k	CRCW080595K3FKEA	Vishay-Dale	RES, 95.3 k, 1%, 0.125 W, 0805	0805
32	R41, R45, R46, R47, R50	5	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
33	R42, R49	2	3.00k	ERJ-6ENF3001V	Panasonic	RES, 3.00 k, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
34	R51	1	49.9k	CRCW080549K9FKEA	Vishay-Dale	RES, 49.9 k, 1%, 0.125 W, 0805	0805
35	SH-J1	1	1x2	SPC02SYAN	Sullins Connector Solutions	Shunt, 100mil, Flash Gold, Black	Closed Top 100mil Shunt
36	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP17, TP18, TP19, TP20, TP21, TP22, TP27, TP28, TP29, TP30, TP31, TP32, TP33, TP34, TP35, TP41, TP42, TP43, TP44, TP45, TP46	30		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
37	TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP23, TP24, TP25, TP26, TP36, TP37, TP38, TP39, TP40, TP47, TP48, TP49, TP50	20		5001	Keystone	Test Point, Miniature, Black, TH	Black Miniature Testpoint
38	U1, U2	2		TPS50601AHKH/EM	Texas Instruments	Radiation Hardened 3.0- to 6.3-V Input, 6-A Synchronous Buck Converter, HKH0020A (CFP-20)	HKH0020A
39	U3, U4	2		SN74AHC1G04DBVR	Texas Instruments	SINGLE SCHMITT-TRIGGER INVERTER GATE, DBV0005A (SOT-5)	DBV0005A
40	C2, C24, C29	0	0.1uF	08055C104JAT2A	AVX	CAP, CERM, 0.1 uF, 50 V, +/- 5%, X7R, 0805	0805
41	C7, C19, C21, C35, C41, C43	0	330uF	T530X337M010ATE006	Kemet	CAP, Tantalum Polymer, 330 uF, 10 V, +/- 20%, 0.006 ohm, 7343-43 SMD	7343-43
42	C17, C22, C39, C44	0	0.1uF	C1206C104J5RACTU	Kemet	CAP, CERM, 0.1 uF, 50 V, +/- 5%, X7R, 1206	1206
43	C23	0	0.01uF	GRM216R71H103KA01D	MuRata	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, 0805	0805
44	C30	0	390pF	GRM216S01H391JA01D	MuRata	CAP, CERM, 390 pF, 50 V, +/- 5%, C0G/NP0, 0805	0805
45	C36	0	0.068uF	GRM219R71E683KA01D	MuRata	CAP, CERM, 0.068 uF, 25 V, +/- 10%, X7R, 0805	0805
46	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
47	J2, J5, J8, J10, J11, J15, J16, J19	0		575-4	Keystone	Standard Banana Jack, Uninsulated, 5.5mm	Keystone_575-4
48	R1, R3, R5, R6, R7, R23, R25, R27, R28, R29	0	0	CRCW08050000Z0EA	Vishay-Dale	RES, 0, 5%, 0.125 W, 0805	0805
49	R11	0	910	CRCW0805910RJNEA	Vishay-Dale	RES, 910, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
50	R17	0	499k	RG2012P-4993-B-T5	Susumu Co Ltd	RES, 499 k, 0.1%, 0.125 W, 0805	0805
51	R18	0	95.3k	CRCW080595K3FKEA	Vishay-Dale	RES, 95.3 k, 1%, 0.125 W, 0805	0805
52	R32, R35	0	10.0k	CRCW080510K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.125 W, 0805	0805
53	R38	0	4.02k	CRCW08054K02FKEA	Vishay-Dale	RES, 4.02 k, 1%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
54	R39	0	3.40k	CRCW08053K40FKEA	Vishay-Dale	RES, 3.40 k, 1%, 0.125 W, 0805	0805
55	R44	0	10.0k	RG2012P-103-B-T5	Susumu Co Ltd	RES, 10.0 k, 0.1%, 0.125 W, 0805	0805
56	R48	0	4.70k	RG2012P-472-B-T5	Susumu Co Ltd	RES, 4.70 k, 0.1%, 0.125 W, 0805	0805