

Variant: 001
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SENS094 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB	1		SENS094	Any	Printed Circuit Board	
2	C1, C2, C3, C4, C5, C6, C7, C8, C11, C12	10	0.1uF	885012206071	Würth Elektronik	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, 0603	0603
3	C9	1	1uF	CGA3E3X5R1H105M080AB	TDK	CAP, CERM, 1 uF, 50 V, +/- 20%, X5R, AEC-Q200 Grade 3, 0603	0603
4	C10	1	2.2uF	GRT188R61H225KE13D	MuRata	CAP, CERM, 2.2 uF, 50 V, +/- 10%, X5R, AEC-Q200 Grade 3, 0603	0603
5	D1, D2, D3, D4, D5	5	White	VAOL-S8WR4	Visual Communications Company, LLC	LED, White, SMD	0805
6	D6	1	Red	SML-LXF0805SRC-TR	Lumex	LED, Red, SMD	2x1.25mm
7	H1	1		D33-N52	K&J Magnetics	Kitting Item: D33-N52, 3/16" dia. x 3/16" thick, N52 axial magnet	
8	H2	1		TriggerModule	Stratasys	Kitting Item: Plastic module with magnet. This module is 3D printed from two STL files that are assembled together.	
9	H3	1		GC0360-026-0750	Gardner Spring, Inc.	Kitting Item: This is the spring that gets attached on the TriggerModule.	
10	H4	1		BC22AAAW	MPD (Memory Protection Devices)	Kitting Item: BC22AAAW Battery Holder	
11	H5, H6	2		92942A711	McMaster-Carr	Kitting Item: Nylon Screw	
12	H7, H8	2		94812A100	McMaster-Carr	Kitting Item: Nylon Hex Nut	
13	R1, R2, R4, R12, R13	5	10.0k	RMCF0402FT10K0	Stackpole Electronics Inc	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
14	R5, R19, R20, R21, R22, R23	6	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402
15	R6	1	11.0k	CRCW040211K0FKED	Vishay-Dale	RES, 11.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
16	R7	1	8.25k	CRCW04028K25FKED	Vishay-Dale	RES, 8.25 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
17	R8	1	35.7k	CRCW040235K7FKED	Vishay-Dale	RES, 35.7 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
18	R9	1	205	CRCW0402205RFKED	Vishay-Dale	RES, 205, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
19	R10	1	51.1k	RMCF0402FT51K1	Stackpole Electronics Inc	RES, 51.1 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
20	R14, R16, R17, R18	4		Solder Bridge	Any	Solder Bridge, 0603, 2pos	SOLDER_BRIDGE_0603
21	TP1, TP4, TP7, TP8, TP10, TP14	6		5015	Keystone	Test Point, Miniature, SMT	Testpoint_Keystone_Miniature
22	TP9	1		S2751-46R	Harwin	Test Point, SMT	Test Point, SMT
23	U1, U2	2		DRV5032DUDMRR	Texas Instruments	Ultra-Low Power 1.65V to 5.5V Hall Effect Switch, DMR0004A (X2SON-4)	DMR0004A
24	U3, U4	2		DRV5032FADBZR	Texas Instruments	Ultra-Low Power Digital-Switch Hall Effect Sensor, DBZ0003A (SOT-23-3)	DBZ0003A
25	U5	1		TPS22917DBVR	Texas Instruments	5.5-V, 2-A, 80 mohm Low Leakage Load Switch with RCB and Programmable Rise Time, DBV0006A (SOT-23-6)	DBV0006A
26	U6	1		DRV5056A1QLPG	Texas Instruments	High Accuracy 3.3 V or 5 V Ratiometric Unipolar Hall Effect Sensor Family, LPG0003A (TO-92-3)	LPG0003A
27	U7	1		TLV9061IDBVR	Texas Instruments	10-MHz, RRIO, CMOS Operational Amplifier for Cost-Sensitive Systems, DBV0005A (SOT-23-5)	DBV0005A
28	U8	1		TPS70933DBVR	Texas Instruments	150-mA, 30-V, Ultra-Low IQ, Wide Input Low-Dropout Regulator with Reverse Current Protection, DBV0005A (SOT-23-5)	DBV0005A
29	U9	1		SN74HCS00PWR	Texas Instruments	NAND Gate IC 4 Channel Schmitt Trigger Input 14-TSSOP	TSSOP14
30	U10	1		SN74AUP1G00DCKR	Texas Instruments	Low-Power Single Two-Input Positive-NAND Gate, DCK0005A, LARGE T&R	DCK0005A
31	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
32	Q1	0	100 V	ZXTN25100BFHTA	Diodes Inc.	Transistor, NPN, 100 V, 3 A, AEC-Q101, SOT-23	SOT-23
33	R3	0	0	RC0402JR-070RL	Yageo America	RES, 0, 5%, 0.063 W, 0402	0402
34	R11	0	887	CRCW0402887RFKED	Vishay-Dale	RES, 887, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
35	R15	0	10.0k	RMCF0402FT10K0	Stackpole Electronics Inc	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
36	R24	0	35.7k	CRCW040235K7FKED	Vishay-Dale	RES, 35.7 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
37	TP2, TP3, TP13	0		5015	Keystone	Test Point, Miniature, SMT	Testpoint_Keystone_Miniature
38	TP5, TP6, TP11, TP12, TP15, TP16, TP17	0		S2751-46R	Harwin	Test Point, SMT	Test Point, SMT

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