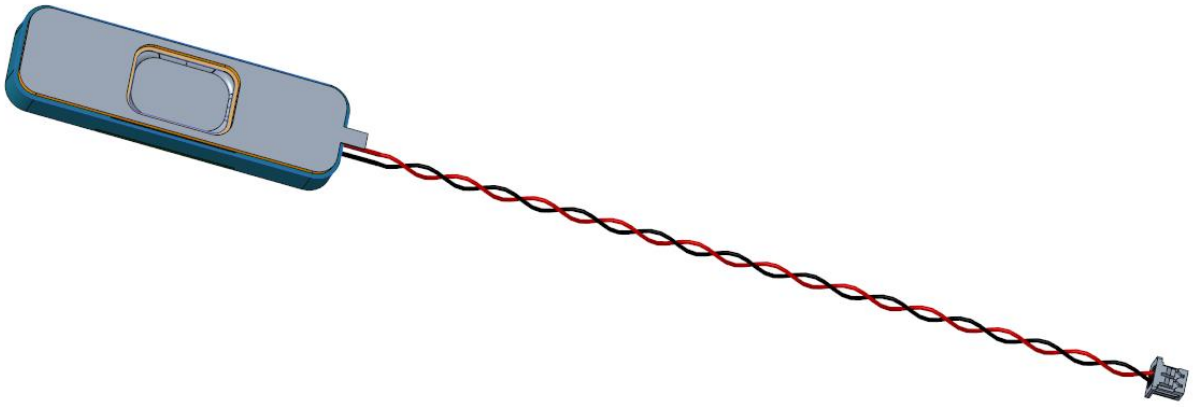
Speaker Box

with one BR1511L035UN6 inside

BOX1-18082-10C

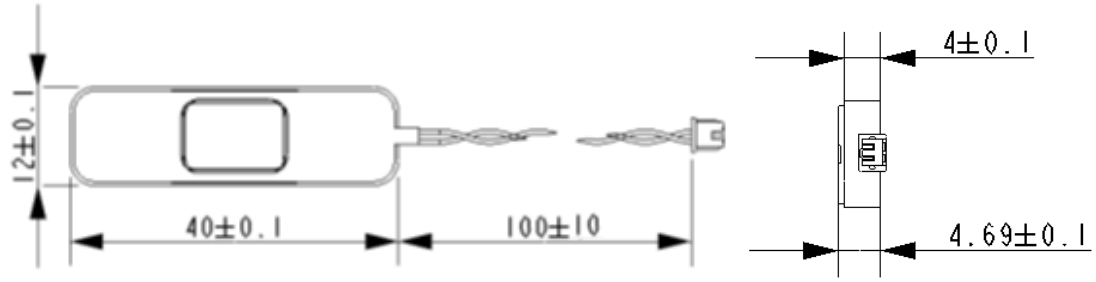


Revision

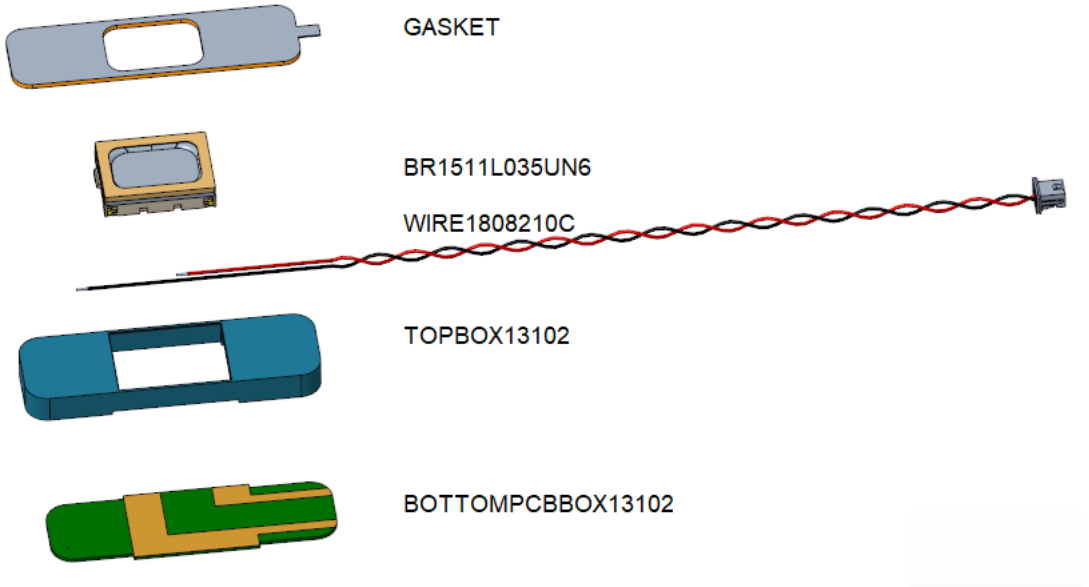
Date	Version	Status	Changes	Approver
2018/09/05	V0.1	Draft	First release	Jay.Hu
2018/11/15	V0.2	Draft	Add chapter 1.2 over shoot	Jay
2019/01/02	V0.3	Draft	Change overshoot 0.35mm to 0.25mm	Jay
2019/01/28	V0.4	Draft	Change wires and Electro-acoustic characteristics	WG

1. Mechanical Characteristics

1.1. Mechanical Drawing (Unit: mm)



1.2. Exploded View



1.3. Material List

1.	Speaker	BR1511L035UN6	1pcs
2.	TOPBOX13102	ABS	1pcs
3.	BOTTOMPCBBOX13102	PCB	1pcs
4.	WIRE1808210C	UL3302 32AWG with Molex 51021-0200 + Molex 50058-810	1pcs
5.	Gasket	Rogers 4790-92-25021-04P	1pcs

2. Packaging & labels

Number of units one tray: 31 pcs.

Number of units per package: 1240 pcs.

Box weight: 6.65kg

Box dimension: 460*230*295 mm

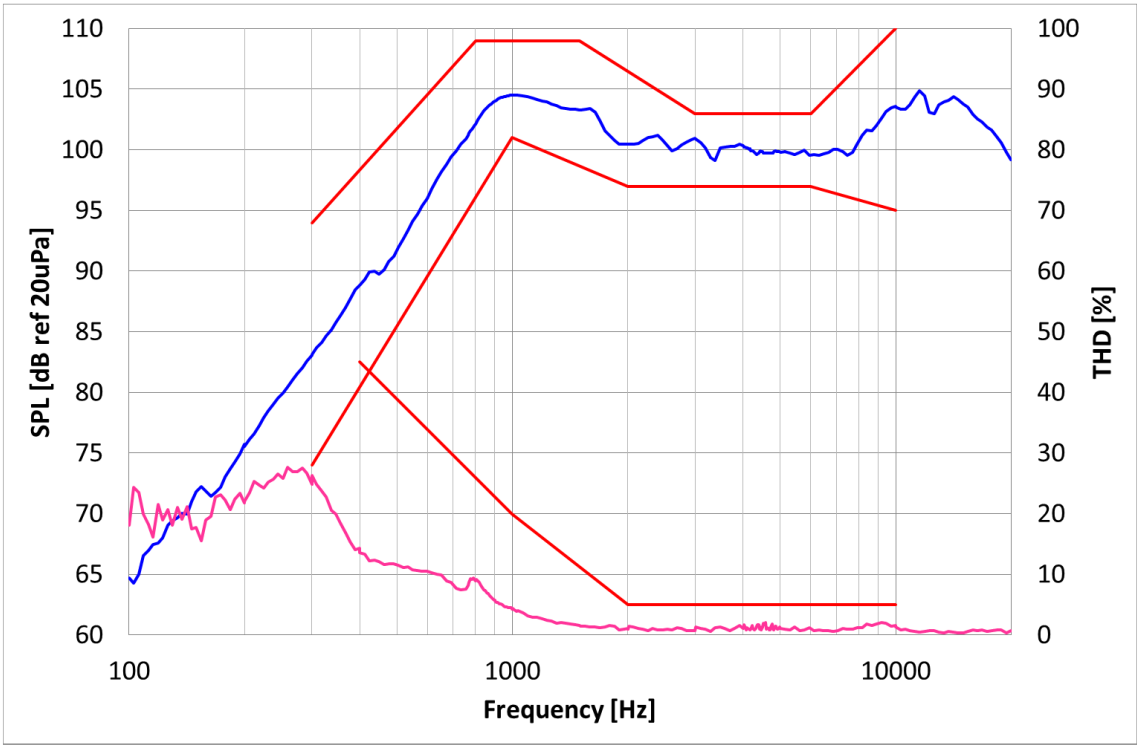
3. Related document

Refer to the specification BR1511L035UN6

4. Electro-acoustic characteristics

4.1. Frequency Response & THD

Typical frequency response measured in free field according to chapter 4.3
(d=3.16cm, U=2.05Vrms)



f(Hz)	SPL lower limit(dB)	f(Hz)	SPL upper limit(dB)	f(Hz)	THD upper limit(%)
300	74	300	94	400	45
1000	101	800	109	1000	20
2000	97	1500	109	2000	5
6000	97	3000	103	10000	5
10000	95	6000	103		
		10000	110		

4.2. Electro-Acoustic Parameters

Speaker box measured in free field according to chapter 4.3 per channel.

1.	Rated impedance	Z: 6 Ω
2.	Voice coil resistance	R: 5.4 Ω ±10%
3.	Resonance frequency(1ccm, 2.05Vrms)	f_0: 900Hz±15%
4.	Nominal characteristic sensitivity (calculated for 1W 1m) 1cc back cavity at the frequency range:	72dB 2k~5kHz
5.	Measured characteristic sensitivity (at 0.7W in 3.16cm) 0.6cc back cavity at the frequency range:	100±3dB 2k~5kHz
6.	THD	ACC. To 4.1
7.	Max short term power (1sec. ON / 60sec. OFF) (pink noise, 2nd order high pass filtered, -3dB at 1.2kHz, crest factor 2)	1.2W (RMS)
8.	MAX. CONTINUOUS POWER (168h) (white noise, 2nd order high pass filtered, -3dB at 100Hz, 2nd order low pass filtered, -3dB at 8kHz, crest factor 2)	1.0W (RMS)

4.3. Measurement setup (Acoustics) per channel