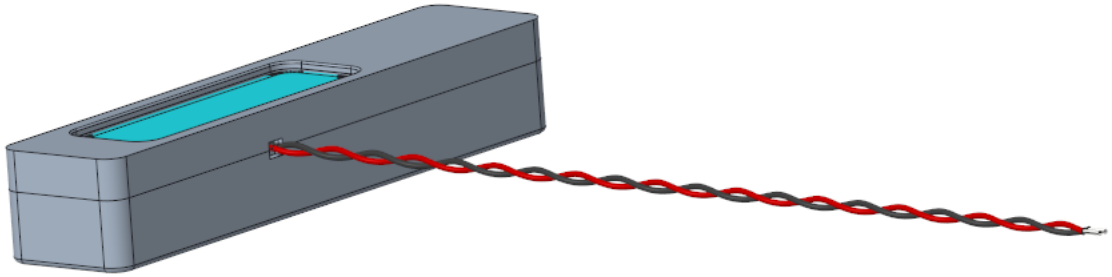
Part Number: BOX-CR3411

Description: Speaker box with 34*11mm speaker with wire



Specification Approval

	Name & Position	Signature	Company	Date
Created by	William Gu – Mechanical engineer	William Gu	Seltech	2022-03-22
Approved by	Lionel Francois – Project manager		Seltech	2022-03-22

Customer Verification

	Name & Position	Signature	Company	Date
Verified by				
Approved by				

Revision

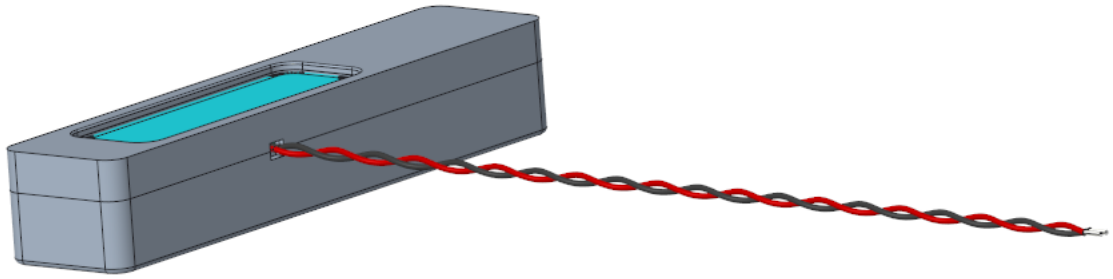
Date	Version	Modified by	Changes
2022-03-22	V0.1	WG	First release
2022-07-15	V0.2	Lionel	Add acoustic curves

Contents

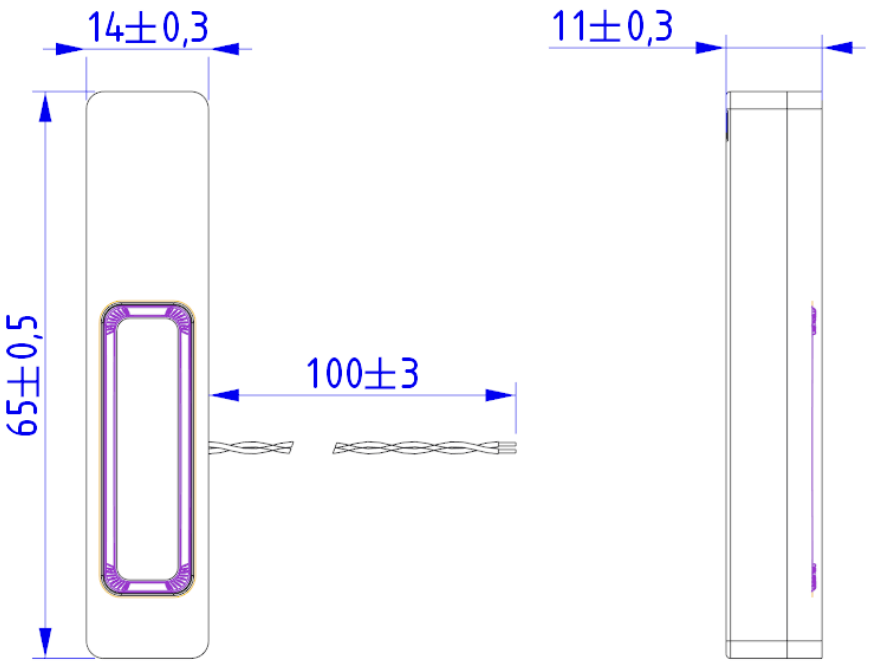
1. Mechanical Characteristics

1.1. Mechanical Drawing

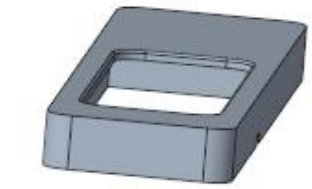
1.1.1. 3D overview



1.1.2. Assembly 2D drawing (unit : mm)



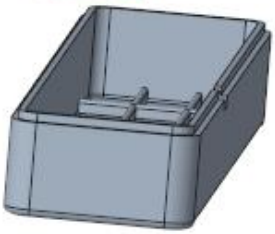
1.1.3. Exploded view



Top plastic

Wire

34x11 speaker



Bottom plastic

Mesh for venting

2. Technical parameters

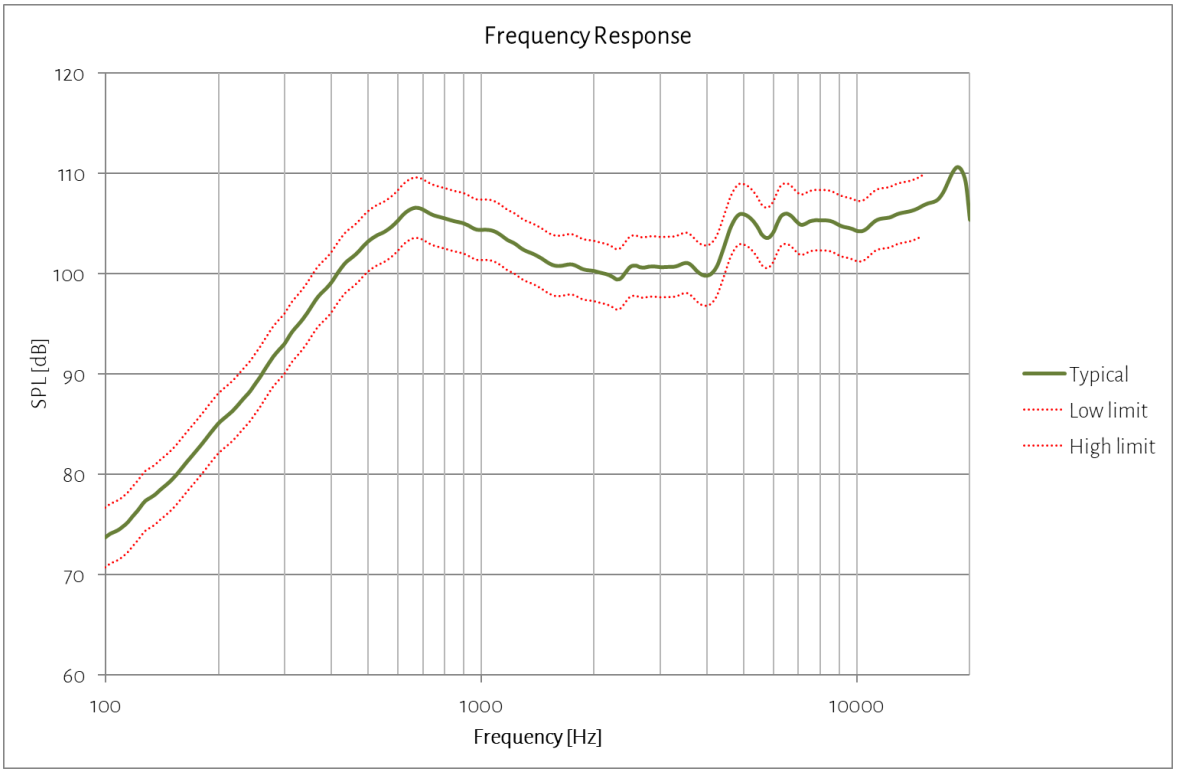
Parameter	Conditions/Description	Values	Units
Rated Input Power		2.0	W
Max Input Power		3.0	W
Impedance	Input 1.0V at 2.0KHz	4±15%	Ω
Resonant Frequency (f0)		580±20%	Hz
Frequency Range	Output S.P.L. -10dB	F0~20K	Hz
Distortion	at 1K Hz, input 2.0W,	< 10%	-
Magnet	NdFeB		mm
Buzz, Rattle, etc.	Normal at sine wave between Fo ~ 5K Hz	2.83	V
Operating Temperature		-25~+60	℃
Storage Temperature		-30~+70	℃
Listening test conditions	scan wave between 500-5KHz, 2.83V, sweep time:3-4s		
Flammability		UL94-V0	-
Waterproof level		N/A	

Testing condition: 15~35°C R.H. 25 ~75%.86 kPa to 106 kPa (860 mbar to 1 060 mbar

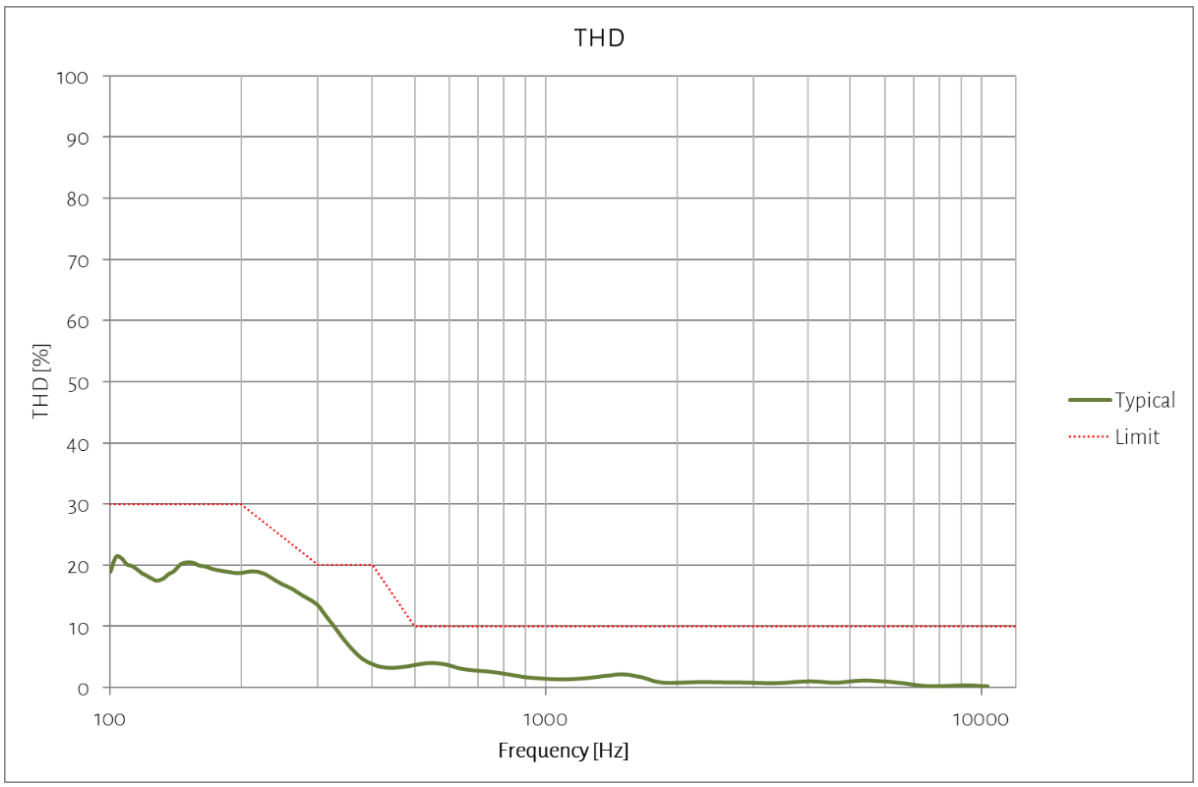
According to standard GB/T 9397—200X and IEC 60268-1

3. Acoustic parameters

3.1. Frequency Response Curve

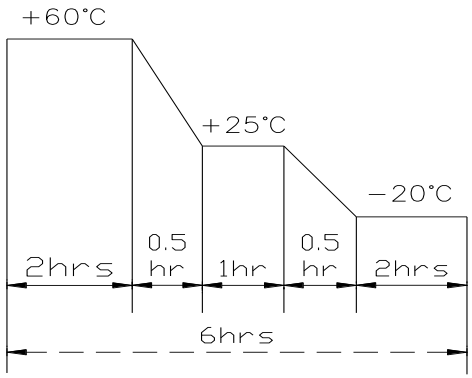


3.2. Total Harmonic Distortion Curve



Test condition: 2.83V/3.16cm

4. Reliability parameters

1	Reliability Test Performance	After any following test, parts should conform to original performance within ±3 dB tested with Rated Power, after 6 hours of recovery period.
2	High Temperature Operation and Storage	+ 60 ± 2 °C Humidity Random for 96 Hours. (GB/T 9397—200X)
3	Low Temperature Operation and Storage	– 25 ± 2 °C Humidity Random for 96 Hours. (GB/T 9397—200X)
4	Humidity Test	+40℃±2℃ Relative Humidity(RH)90~95% 48 Hours
5	Temp Cycle	The part shall be subjected 4cycles. One cycle shall be 6 hours and consist of (GB5170.18-87) 
6	Vibration Test	Frequency 30 ± 15 Hz, Amplitude 1.5 mm for 3 Hours. (GB11606.8-89)
7	Drop Test	75 CM free falling on Concrete floor, 10 times. (GB2423. 8-81)
8	Load test	Must perform normal with program White-Noise source at Rated Power for 96 Hours (GB/T 9397—200X)
9	Termination Strength	Apply 3.0N(0.306kg) to each terminal in horizontal direction for 30 seconds; Apply 2.0N(0.204kg) to each terminal in vertical direction for 30 seconds

5. Packaging

To be confirmed

Storage conditions:

- Temperature: -10 to 40° C
- Relative humidity: below 80%

6. Related document

CR3411S040BN4 datasheet