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Component Specification

Product : Speaker
Part Number : CA-SM151131A-0810
Drawing No : FD1511C005

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Notes:
This specification is subject to change or withdrawel without notice

This part is RoHs 2011/65/EU compliant

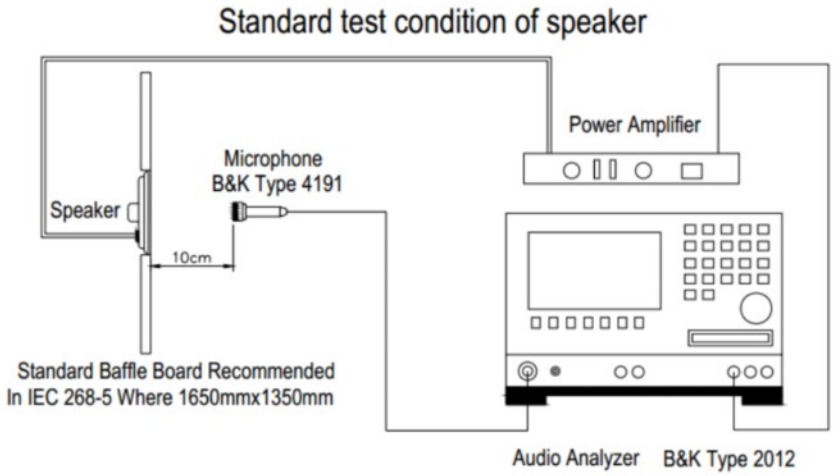
1. General

Mylar speaker for general use.

2. Electrical and Acoustic Characteristics

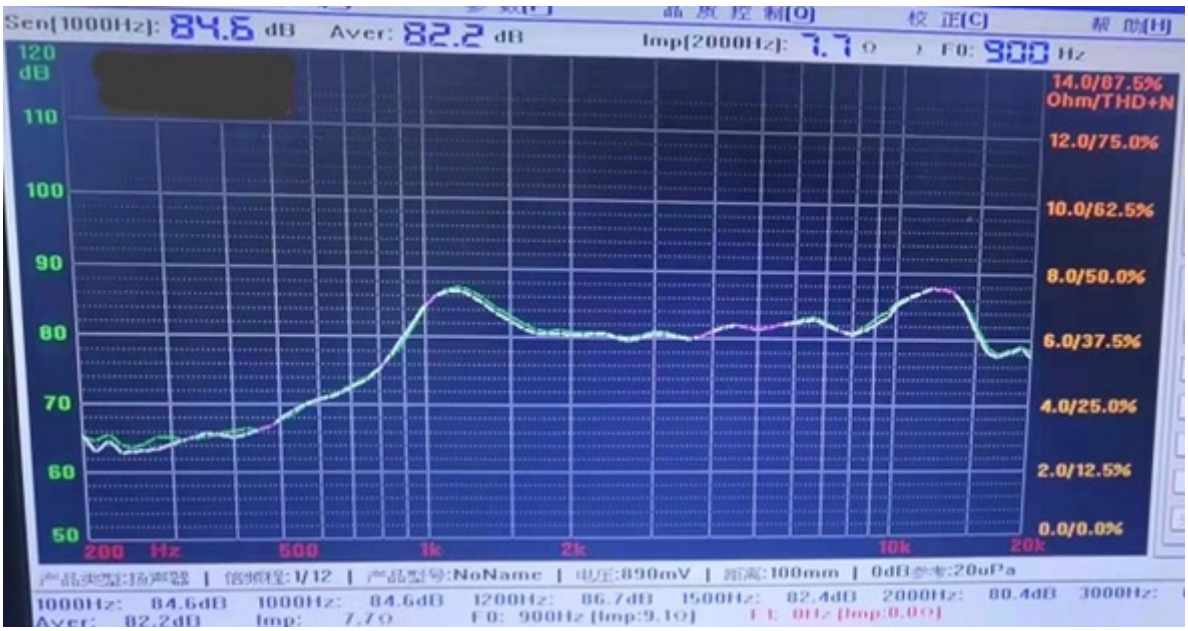
No	Items	Specification
	Impedance	8Ω ± 20%
	Sound Pressure Level	85dB ± 3dB (0.1m , 0.1W , 1Khz)
	Resonance Frequency	800Hz ± 20% at 1V
	Frequency Range	f0~10KHz
	Input Power	Rated 1.0W / Max. 1.2W
	Distortion	<10% at 1kHz
	Buzz and Rattle	Using rated input power (1.0W) generated by an audio ocillator from F0 to 10Khz . No buzzes nor rattles
	Polarity	When supplied plus D.C. Voltage to (+) terminal, the cone diaghragma must move to forward.
	Dimensions	15 x 11 x 3mm
	Weight	6.5g
	Operating Temperature range	-30~+70 ºC
	Store Temperature range	-40~+85 ºC

3. Test Circuit



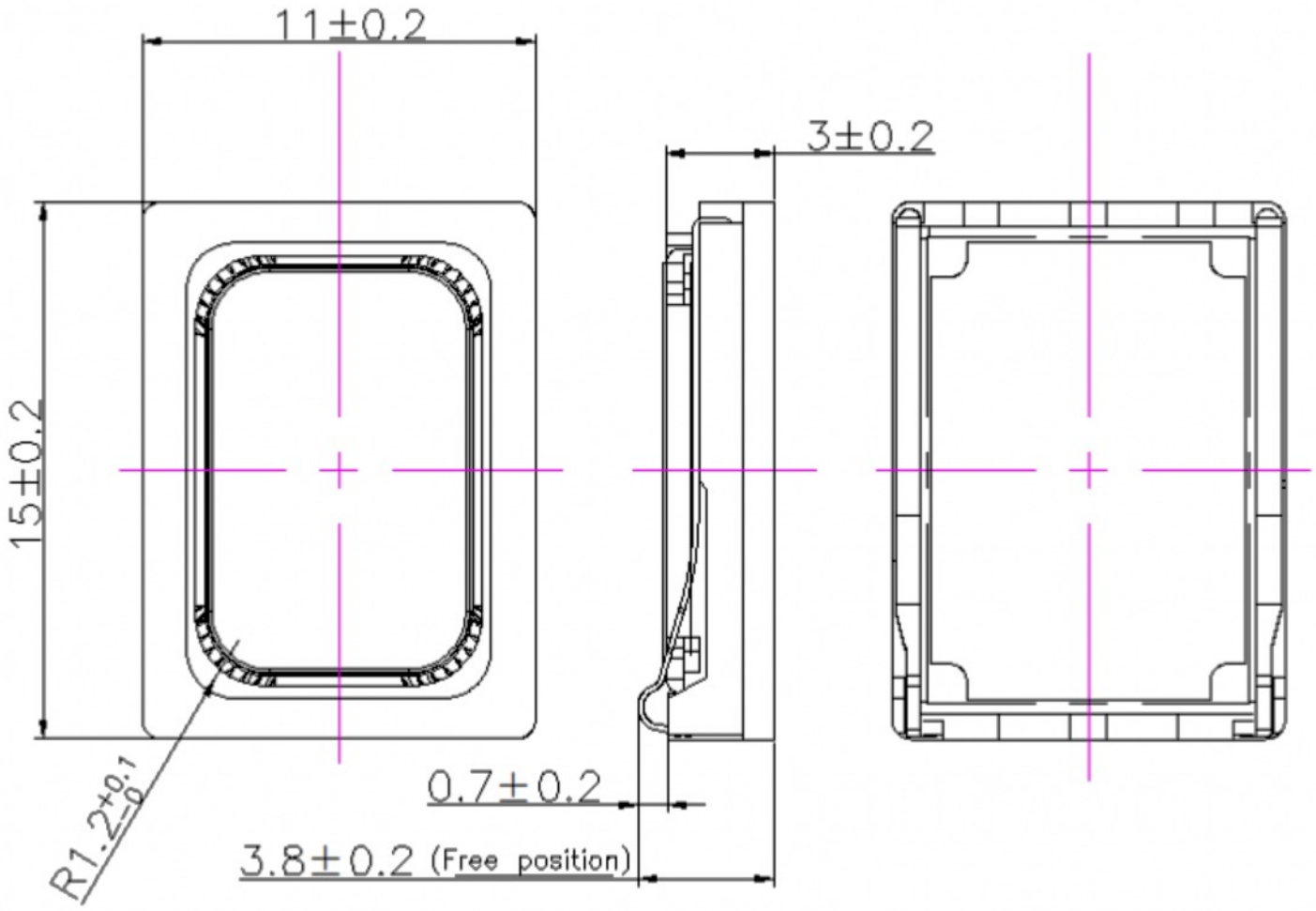
Test Conditions:
Temperature: 15-30 ± 3ºC
Relative humidity: 25% ~ 80%
Atmospheric pressure: 860 to 1060mbar

4. Frequency Response Curve



1 . 0	16/10/20	Preliminary	L. Chen	S. Ge	G. Schubert
Revision	Date	Notes	Drawn by	Checked by	Approved by

5. Dimension



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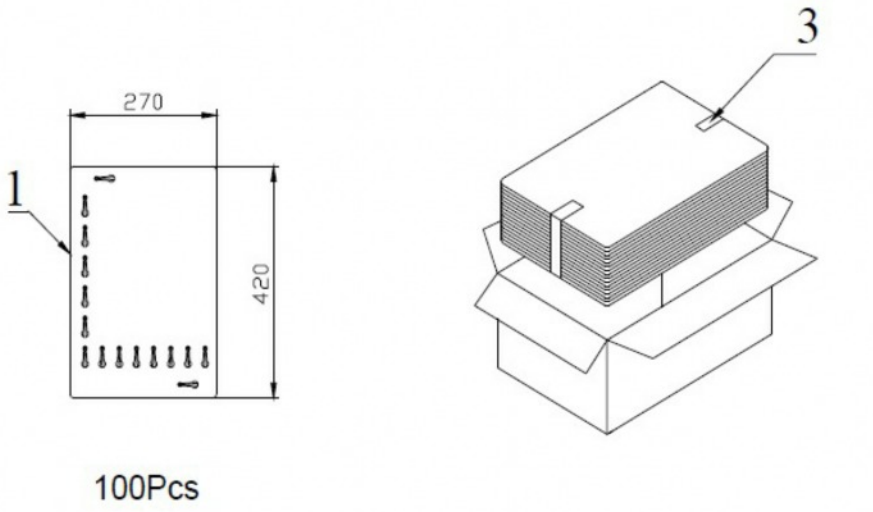
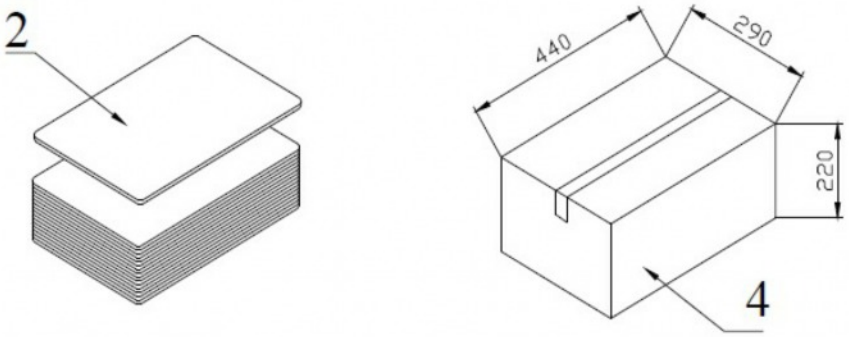
7. Reliability Test

No	Items	Specification
1	High Temperature Test	After being placed in a chamber with 85±3 ºC for 96 hours and then being placed in natural condition for 1 hour.
2	Low Temperature Test	After being placed in a chamber with -40±3C for 96 hours and then being placed in natural condition for 1 hour
3	Humidity Test	After being placed in a chamber with 85 to 90%R.H. at +40±3C for 96 hours and then being placed in natural condition for 3 hour.
4	Thermal Shock Test	After being placed in a chamber at +85 C for 1 hour, then speaker shall be placed in a chamber at -40C for 1 hour (1 cycle). After 4 above cycles, speaker shall be measured after being placed in natural condition for 30 min.
5	Vibration Test	After being applied vibration of amplitude of 1.5mm with 10 to 55Hz band of vibration frequency to each of 3 perpendicular directions for 1 hour, then placed in natural condition for 1 hour .
6	Drop Test	The speaker when mounted in the jig which weight 85g~100g, shall with stand 5 times random drops from a height of 1 meter to a concrete floor faced with 5mm thick hard wood board and be no mechanical damage.
7	Load test	After being applied loading white noise with input power 1.0 W for 96 hours, then placed in natural condition for 1 hour.
8	Isulation test	When they are measured with DC 100V the insulation resistance between v.c. terminal and frame must be more than 1 MΩ

After test the speaker S.P.L. Difference shall be within ± 3dB, and the appearance not exist any change to be harmful to normal operation (e.g. Cracks, rusts, damages and distortion)

8. Packing





QTY:1500Pcs

440 x290 x220

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9) Revision

Rev. No	Date	Page	Description	Sign
10	16/10/20	all	Preliminary	Wang.Xue