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Component Specification

Product : Speaker
Part Number : CA-SM151130A-0607
Drawing No : DRW11061A

Content

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2. Electrical & Acoustical Characteristics
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1. General

Dynamic speaker

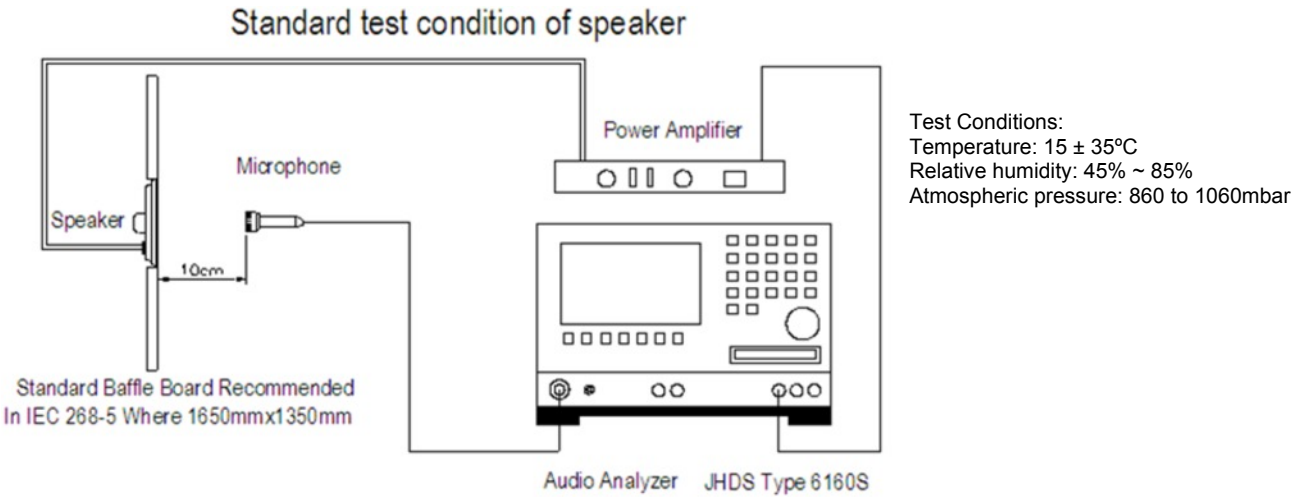
2. Electrical and Acoustic Characteristics

	Items	Specification
1-1	Dimension	15x11x3 mm
1-2	Rated Input Power	0.7W
1-3	Max Input Power	1.0W
1-4	Rated Impedance	6Ω ± 20%
1-5	Resonance Frequency(f ₀)	550±20% Hz in free air at 1.0Vrms/10cm. 850±20% Hz while testing in 1cc box at 2.0Vrms/10cm
1-6	Sound Pressure Level	92.5 ±3 dB SPL /2.0Vrms/10cm at □ AVG 0.8,1.0,1.5 2.0□KHz in 1cc box
1-7	Frequency Range	F0~20kHz.
1-8	Total Harmonic Distortion	15%MAX. at 800~1200Hz, 2.0rms/10cm 10% MAX. at 1201~5KHz, 2.0rms/10cm
1-9	Magnet	Rare earth permanent (NdFeB) magnet mm
1-10	Polarity	When positive voltage is applied to the terminal marked (+), diaphragm should move to the front.
1-11	Buzz, Rattle, etc.	Must be normal at sine wave 0.89V(in 1.0cc box) from 300~10KHz
1-12	Appearance	Should not exist any obstacle to be harmful to normal operation; damages, cracks, rusts and distortions, etc.
1-13	Weight	1,5g
1-14	Storage temperature	Storage temperature: -20C to +70C
1-15	Operation temperature	Operating temperature: -20C to +70C

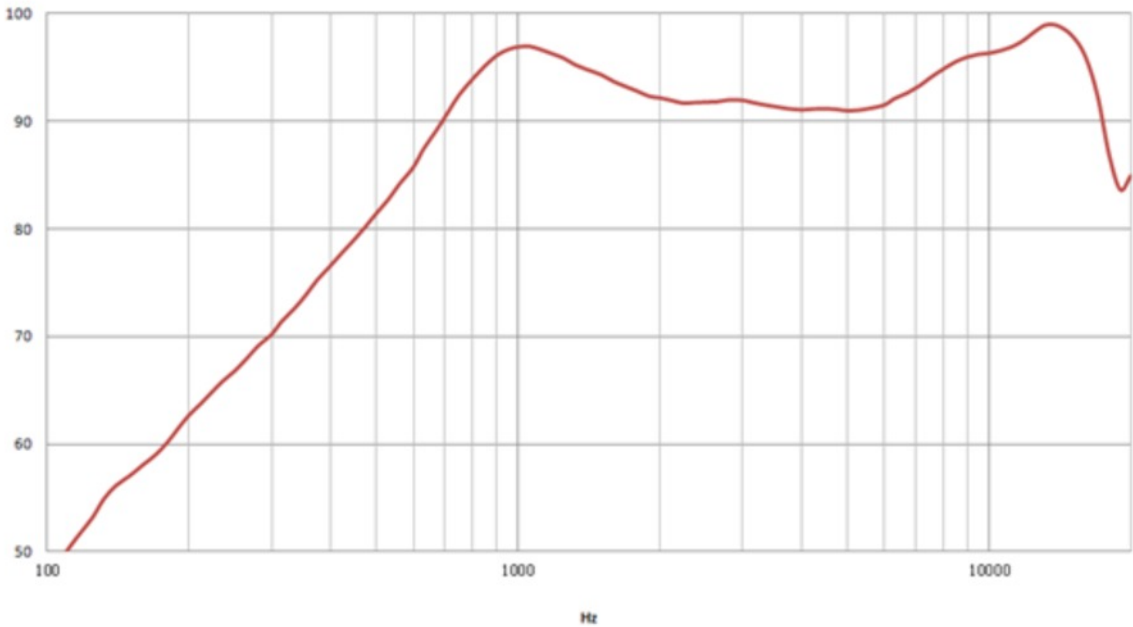
1.0	16/03/18		L. Chen	S. Ge	G. Schubert
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3. Test Circuit



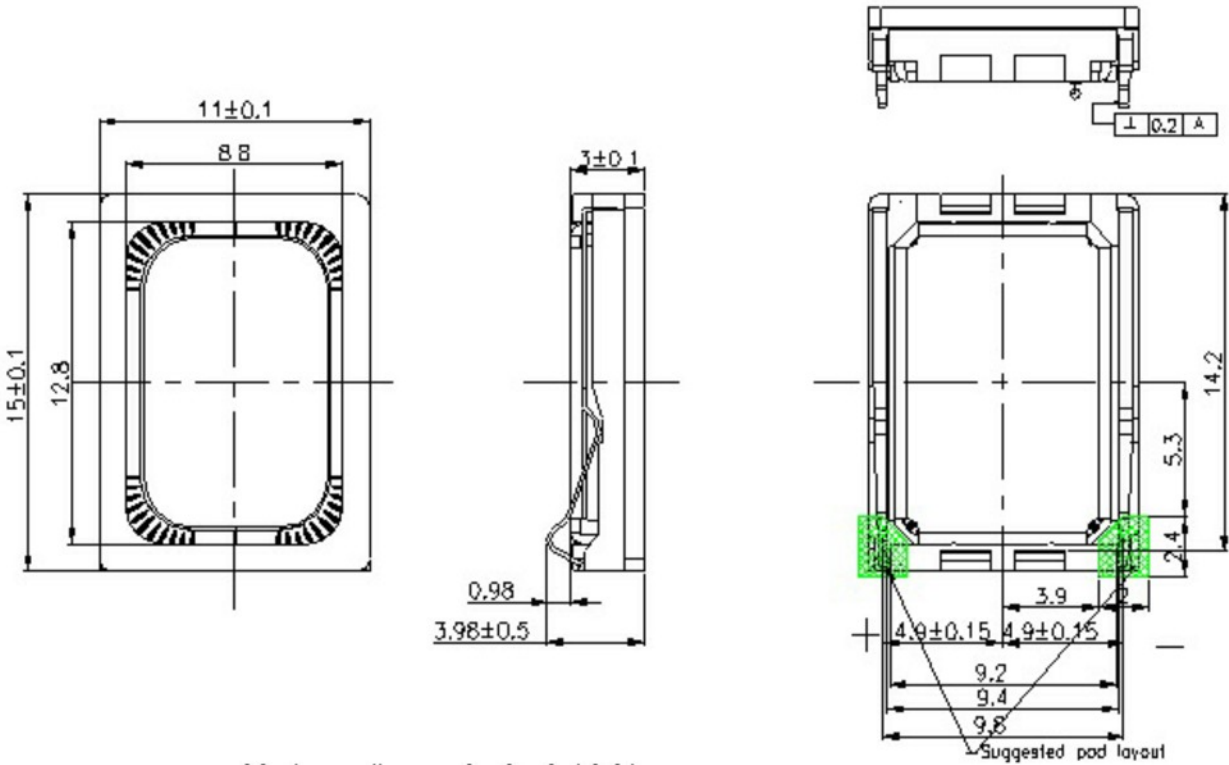
4. Frequency Response Curve



1 . 0	15/02/18		L. Chen	S. Ge	G. Schubert
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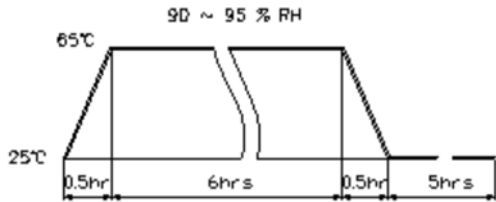
5. Dimension



1.0	15/02/18		L. Chen	S. Ge	G. Schubert
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6. Reliability Test

No	Items	Specification
1	High Temperature Test	Keep 96 hours at +70C +/- 3C and leave 6 hours in normal temperature and then check
2	Low Temperature Test	Keep 96 hours at -30C +/- 3C and leave 6 hours in normal temperature and then check
3	Humidity Test	Keep 96 hours at + 30C +/- 3C relative humidity 92-95% and leave 3 hours in normal temperature and then checked.
4	Thermal Cycle Test	<p>The part shall be subjected 5 cycles. One cycle shall be 6 hours and consist of;</p> 
5	Vibration Test	10~55~10Hz sin-wave sweep 15min. 5G(constant) X,Y, Z 3 direction. 2 hours each, total 6 hours.
6	Drop Test	Drop the speakers contained in normal box onto the board 40mm thick 10 times from the height of 75cm
7	Load test	Rate Power Pink noise is applied for 24 hours at room temp
8	Lead Wire Pull Strength	<p>The pull force shall be applied to double lead wire □</p> <p>Horizontal 3.0N(0.306kg) for 30 seconds.</p> <p>Vertical 2.0N(0.204kg) for 30 seconds.</p>

Pass conditions: After these test , the change of S.P.L shall be within ± 3 dB

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8) Revision

Rev. No	Date	Page	Description	Sign
10	15/02/19	all	Production release	Wang.Xue

1 . 0	15/02/18		L. Chen	S. Ge	G. Schubert
Revision	Date	Notes	Drawn by	Checked by	Approved by