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Component Specification

Product : Speaker
Part Number : CA-SM2343A-0812W60C2
Drawing No : DRWK7745

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1. General

Speaker highly suitable for industrial applications.

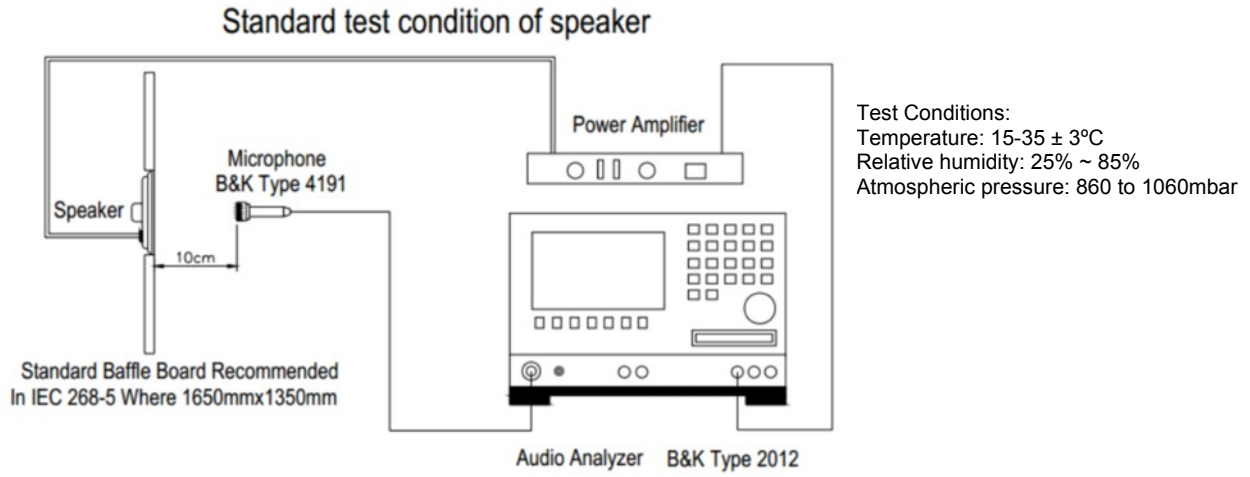
2. Electrical and Acoustic Characteristics

No	Items	Specification
	Impedance	8Ω ± 15% (1Vrms a 2.0KHz)
	Sound Pressure Level	90dB ± 3dB (0.1W/0.1M- at 0.8,1.0,1.2,1.5kHz)
	Resonance Frequency	600Hz ± 20%
	Frequency Range	f0~20KHz
	Input Power	Rated 1.2W / Max. 1.5W
	Distortion	10% Max. at 1kHz 1.2W
	Buzz and Rattle	Should not be audible buzzes, rattles when the 3.1V sine wave signal swept at frequency range.
	Polarity	When supplied plus D.C. Voltage to (+) terminal, the cone diaphragm must move to forward.
	Dimensions	23x5mm
	Weight	4.4g
	Operating Temperature range	-30~+80 °C
	Store Temperature range	-40~+90 °C

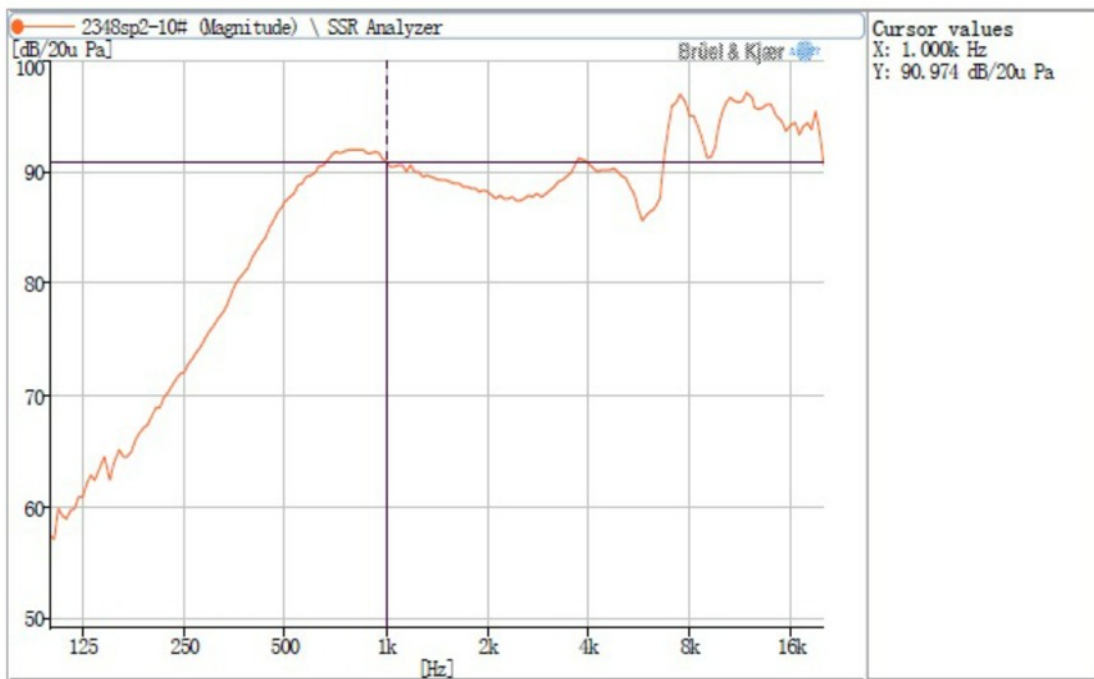
1 . 0	16/10/15	Preliminary	L. Chen	S. Ge	G. Schubert
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3. Test Circuit



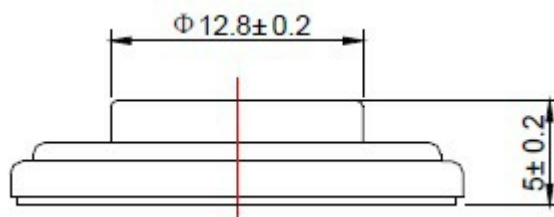
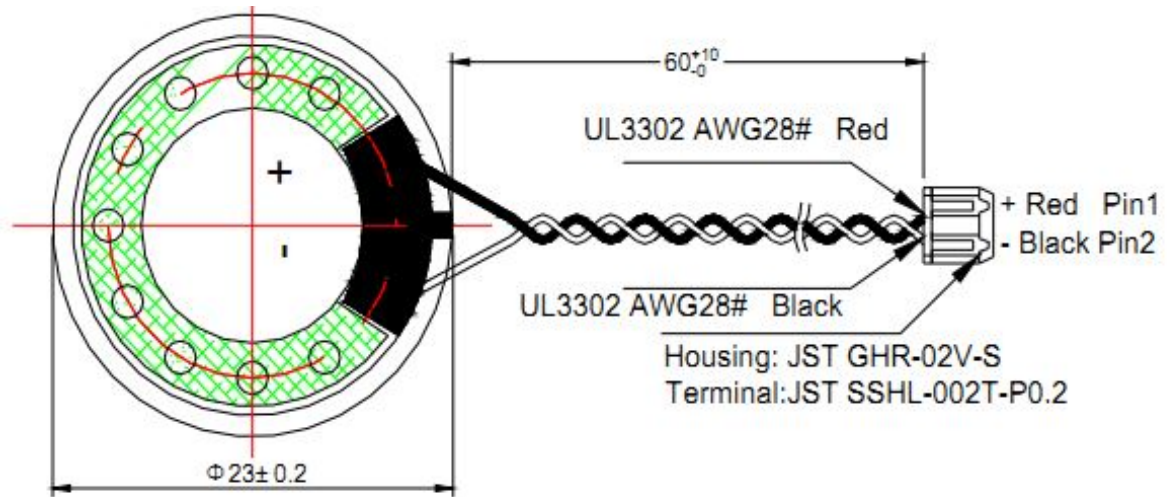
4. Frequency Response Curve




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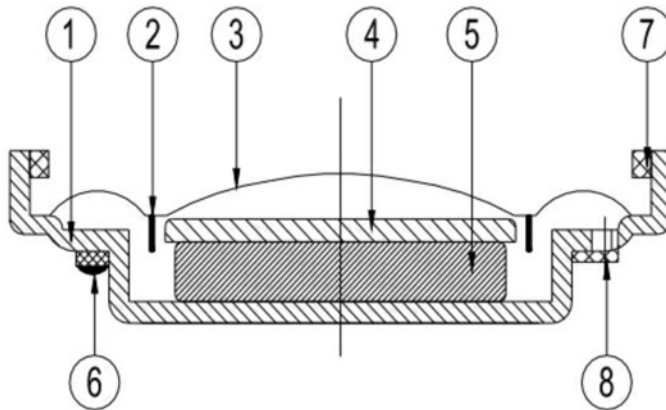
5. Dimension



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6. Structure



8	Screen	1	Unwoven fabric	
7	Gasket	1	PPA	
6	PCB	1	FR-4	
5	Magnet	1	Nd-Fe-B	
4	Plate	1	SPCC	
3	Diaphragm	1	PET	
2	Voice coil	1	Copper	
1	Frame	1	SPCC	
No.	Part Name	Qty	Material	Remarks

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7. Reliability Test

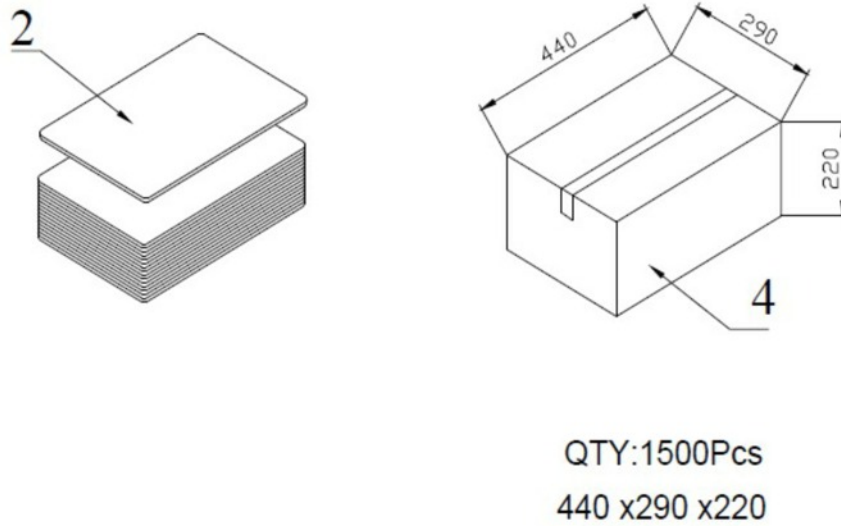
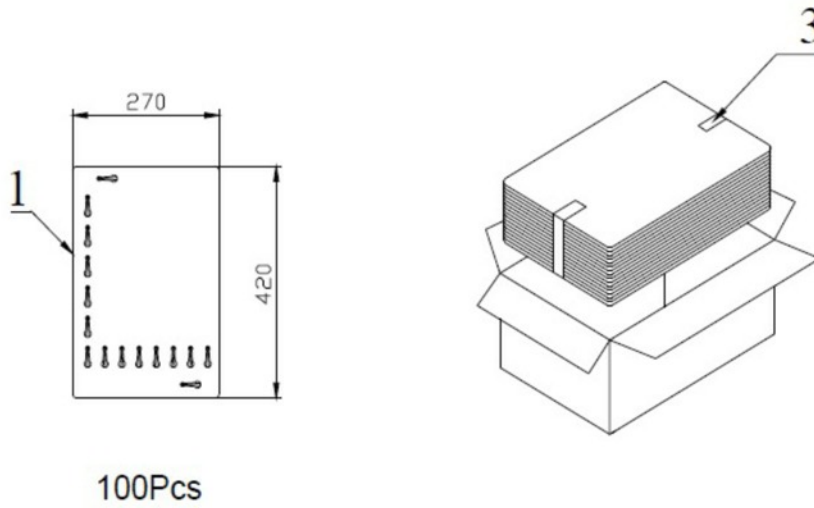
No	Items	Specification
1	High Temperature Test	After being placed in a chamber with 90 ± 3 °C for 96 hours and then being placed in natural condition for 1 hour, speaker shall be measured.
2	Low Temperature Test	After being placed in a chamber with -40 ± 3 °C for 96 hours and then being placed in natural condition for 1 hour, speaker shall be measured.
3	Humidity Test	After being placed in a chamber with 85 to 90%R.H. at $+40\pm 2$ °C for 96 hours and then being placed in natural condition for 1 hour, speaker shall be measured.
4	Thermal Shock Test	After being placed in a chamber at $+90$ °C for 1 hour, then speaker shall be placed in a chamber at -40 °C 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, speaker shall be measured.
6	Drop Test	The speaker when mounted in the jig which weight 85g~100g, shall with stand 15 times random drops from a height of 1.5 meter to a concrete floor faced with 5mm thick hard wood Board and be nothing mechanical damage.
7	Load test	After being applied loading white noise with input power 1.2W(3.1Vrms.) for 96 hours, then placed in natural condition for 1 hour, speaker shall be measured.
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 ± 3 dB, and the appearance not exist any change to be harmful to normal operation (e.g. Cracks, rusts, damages and distortion)

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8. Packing



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