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1. Scope

This specification is applied to the dynamic speaker which is used all of the electrical acoustic product.
-- compact, rich sound
-- applications: telephone, computer, etc. ..

2. General

2.1 Out-Diameter : Ø28 mm
2.2 Height : 4.8 mm
2.3 Weight : 5.4 gr.
2.4 Operating Temperature range:
-25~+65℃ without loss of function
2.5 Store Temperature range:
-30~+70℃ without loss of function

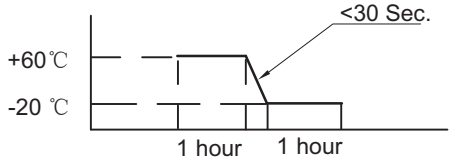
3. Electrical and Acoustic Characteristics.

Test condition : 15 ~ 35 ℃, 25% ~ 85% RH, 860~1060 mbar

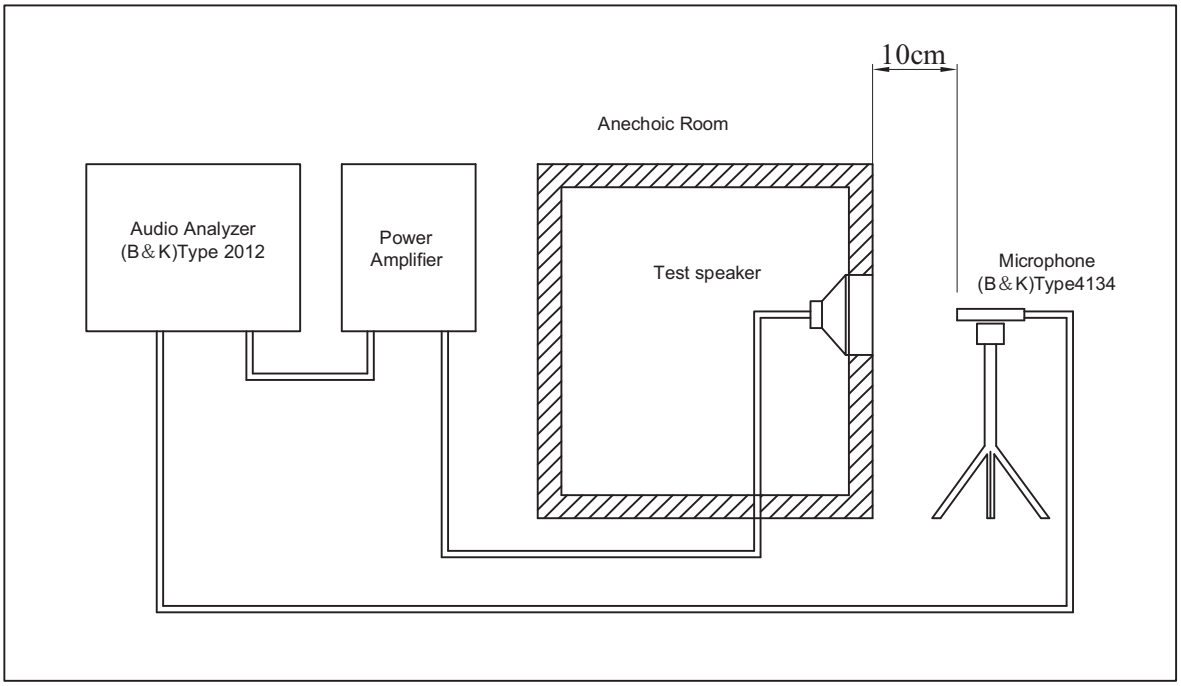
	Items	Specification
1	Impedance	8 Ω ±15%(at 1Vrms,1000Hz)
2	Sound Pressure Level	80dB ± 3dB(0.25W,0.5M;AT800,1000,1200,1500Hz)
3	Resonance Frequency	650 Hz ± 104Hz
4	Frequency Range	F_0 ~ 6.5kHz
5	Input Power	Rated 0.5W / Max. 1.1W
6	Distortion	<5% Max. at Rated power input 1000Hz
7	Buzz and Rattle	Should not be audible buzzes,rattles when the 2.0V sine wave signal swept at frequency range.
8	Polarity	When supplied plus D.C. voltage to (+) terminal, the cone diaphragm must move to formard.

4. Reliability Test

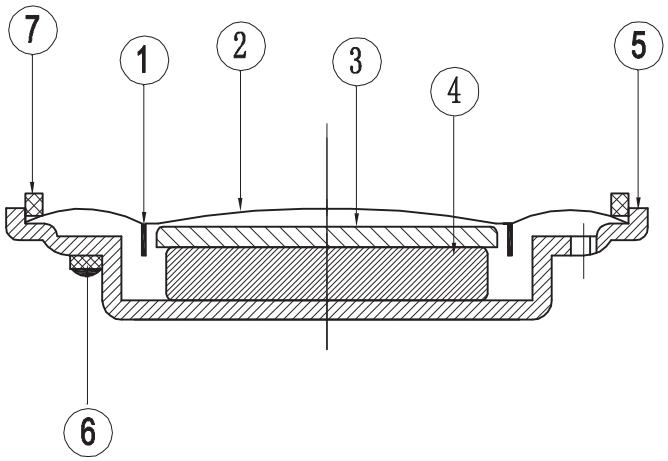
After test(1~7item), the speaker S.P.L . difference shall be within ± 3dB, and the appearance not exist any change to be harmful to normal operation(e.g. cracks,rusts,damages and especially distortion).

	Item	Specification
1	High Temperature Test	After being placed in a chamber with +60± 2 ℃ for 96 hours and then being placed in natural condition for 2 hour, speaker shall be measured.
2	Low Temperature Test	After being placed in a chamber with -25± 3 ℃ for 96 hours and then being placed in natural condition for 2 hour, speaker shall be measured.
3	Humidity Test	After being placed in a chamber with 90 to 95 %R.H. at +40± 2 ℃ for 96 hours and then being placed in natural condition for 4 hour, speaker shall be measured.
4	Thermal Shock Test	After being placed in a chamber at +60 ℃ for 1 hour, then speaker shall be placed in a chamber at -20 ℃ for 1 hour(1 cycle is the below diagram). After 5 above cycles, speaker shall be measured after being placed in natural condition for 1 hour. 
5	Load test	After being applied loading white noise with input power 0.2W for 96 hours, then placed in natural condition for 2 hour, speaker shall be measured.

5. Measurement Block Diagram & Response curve

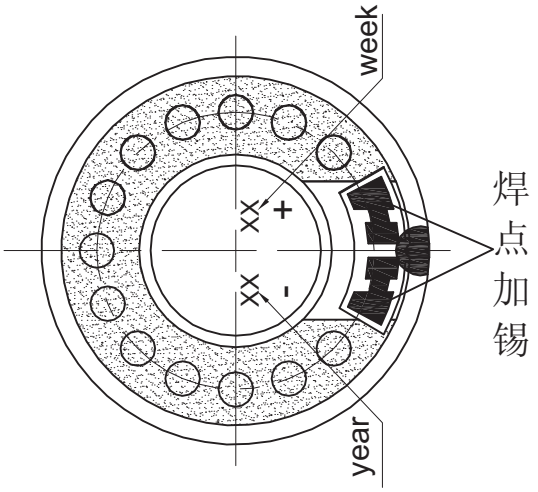


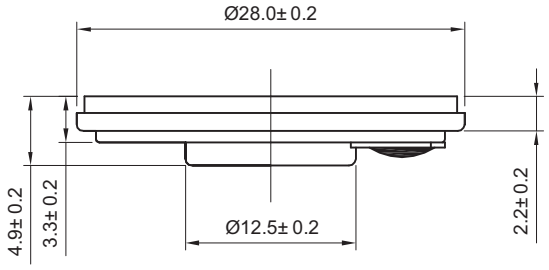
6. Structure

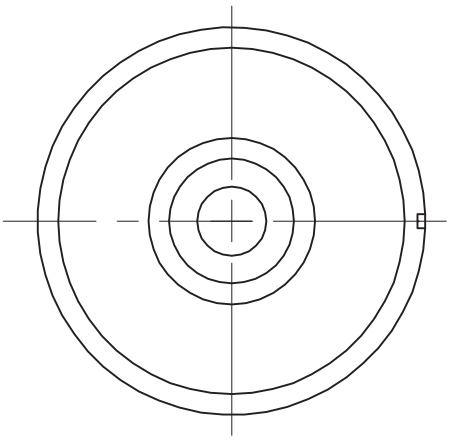


No.	Part Name	Q'TY	Material	Remarks
7	Gasket	1	Rubber	
6	Terminal	1	Epoxy PCB	
5	Frame	1	SPCC	Zn Plated
4	Magnet	1	Nd-Fe-B	
3	Plate	1	SPCC	Zn Plated
2	Diaphragm	1	PET Black	
1	Voice Coil	1	Copper	

7. Dimensions





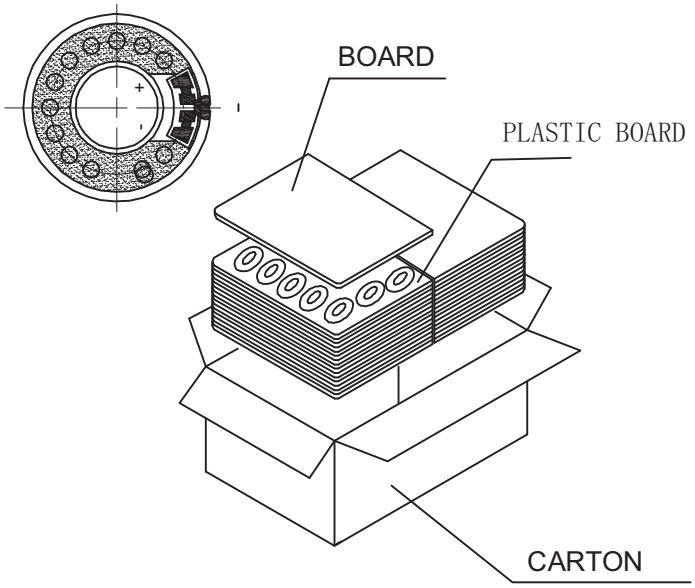


FIRST ANGLE PROJECTION

UNIT : mm

Tolerance : ± 0.2

8. Packing



Note:

1. BOARD 40PCS
2.PLASTIC BOARD 40PCS
3. CARTON 1PCS
4. 2000PCS/CARTON