

SPECIFICATION

受 控

Customer : QUARTZ

Applied To :

Product Name : SPEAKER

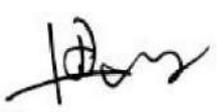
Model Name : SP02F06-6320

Drawing No. : KFC6320

Signature of Approval

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Signature of KEPO

Approved by	Checkde by	Issued by	Date
			



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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: mobile phone, PDA, notebook computer, etc. ..

2. General

- 2.1 Out-Diameter : 50 mm
- 2.2 Height : 20.2 mm
- 2.3 Weight : 27.5 g
- 2.4 Operating Temperature range:
-20 ~+50 °C without loss of function
- 2.5 Store Temperature range:
-25 ~+50 °C without loss of function

3. Electrical and Acoustic Characteristics.

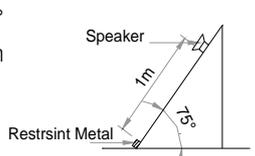
Test condition : 15 ~ 35 °C, 25% ~ 90% RH, 860~1060 mbar

No	Items	Specification
1	Impedance	8 Ω ± 15% (1Vrms at 1KHz)
2	Sound Pressure Level	89 dB ± 3dB (0.1W/0.1M Average at 500,800,1200,1500Hz)
		79 dB ± 3dB (1W/1M Average at 500,800,1200,1500Hz)
3	Resonance Frequency	300 Hz ± 20%
4	Frequency Range	FO ~20KHz
5	Input Power	Rated 3 W / Max. 3.5 W
6	Distortion	<10% Max. at rated power 1kHz
7	Buzz and Rattle	Should not be audible buzzes,rattles when the 4.9V sine wave signal swept at frequency range.
8	Polarity	When supplied plus D.C. voltage to (+) terminal, the cone diaphragm must move to forward.

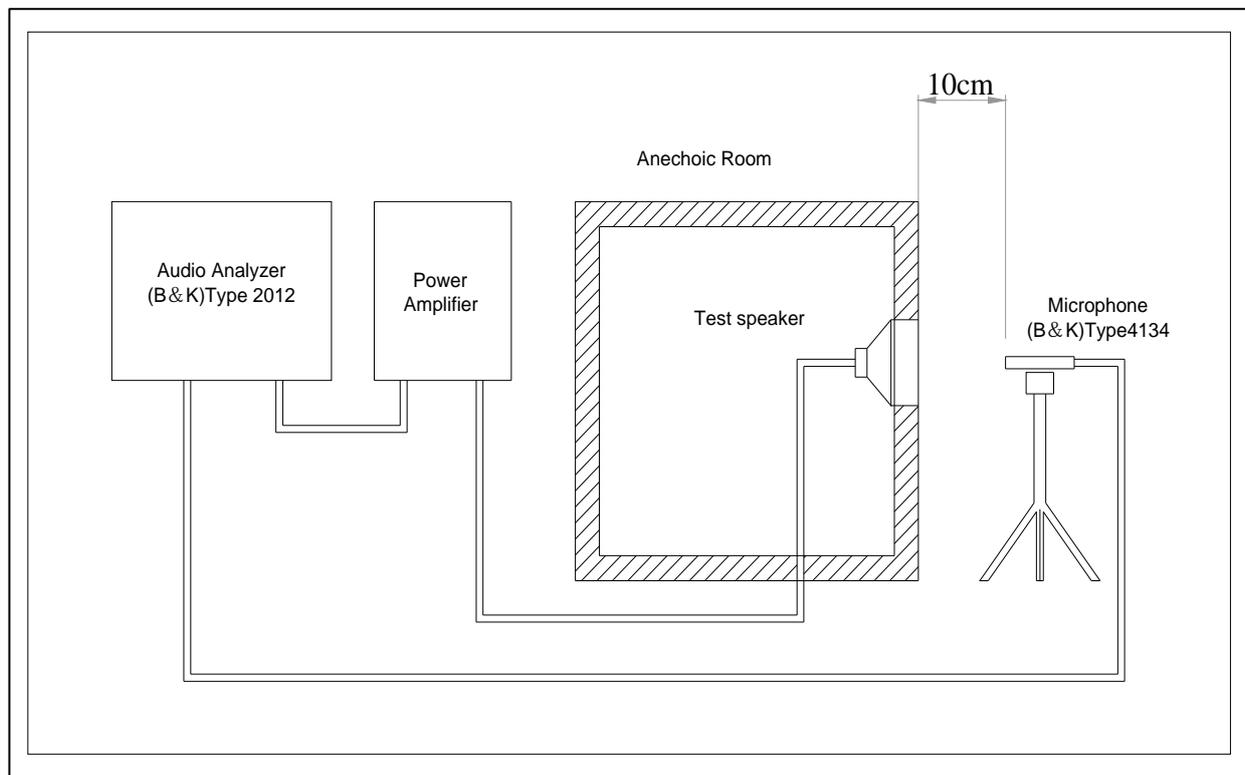
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4. Reliability Test

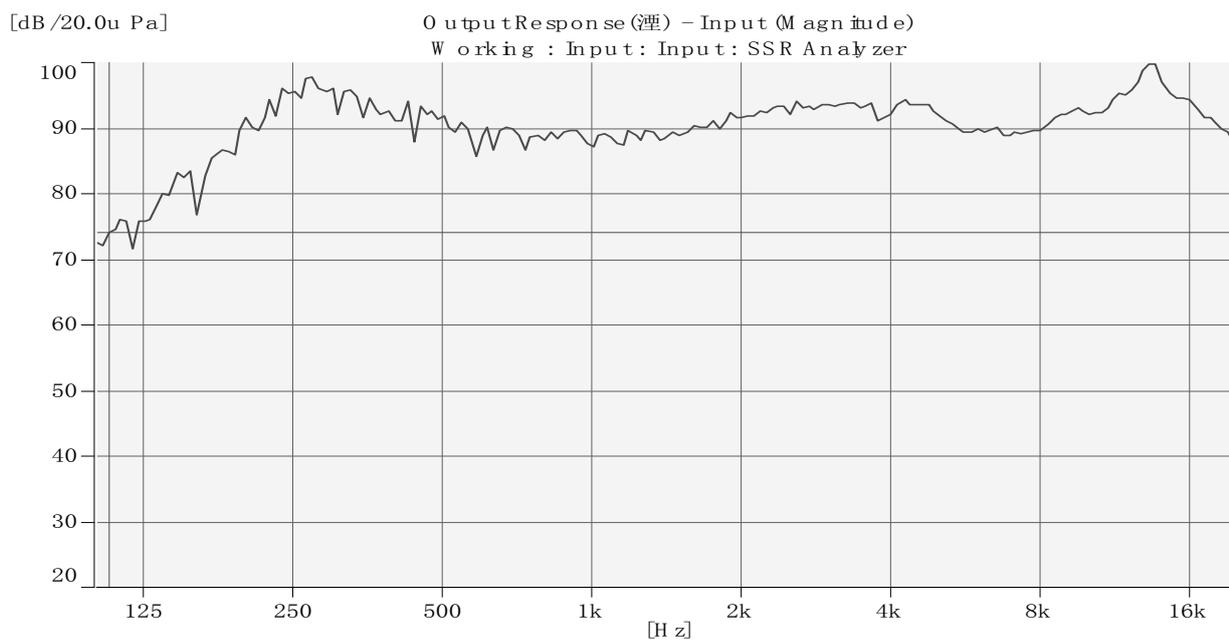
After test(1~7item), the speaker S.P.L . difference shall be within $\pm 3\text{dB}$, and the appearance not exist any change to be harmful to normal operation (e.g. cracks,rusts,damages and especially distortion).

No	Items	Specification
1	High Temperature Test	After being placed in a chamber with $+50\pm 5\text{ }^\circ\text{C}$ for 24 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 $-20\pm 5\text{ }^\circ\text{C}$ for 5 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 $90\pm 5\%\text{R.H.}$ at $+40\pm 5\text{ }^\circ\text{C}$ for 5 hours and then being placed in natural condition for 1 hour, speaker shall be measured.
4	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.
5	Drop Test	<p>A speaker is dropped from 1m in length on 75° inclination and a magnetic circuit of speaker is h to the restraint metal.</p> <p>After the test, magnetic circuit should not drop and speaker should be met the item 11,12.</p> 
6	Load test	After being applied loading white noise with input power $3\text{W}(4.9\text{Vrms.})$ for 5 hours, then placed in natural condition for 1 hour, speaker shall be measured.
7	Insulation test	When they are measured with DC 100V the insulation resistance between v.c. terminal and frame must be more than $1\text{ M}\Omega$

5. Measurement Block Diagram & Response curve

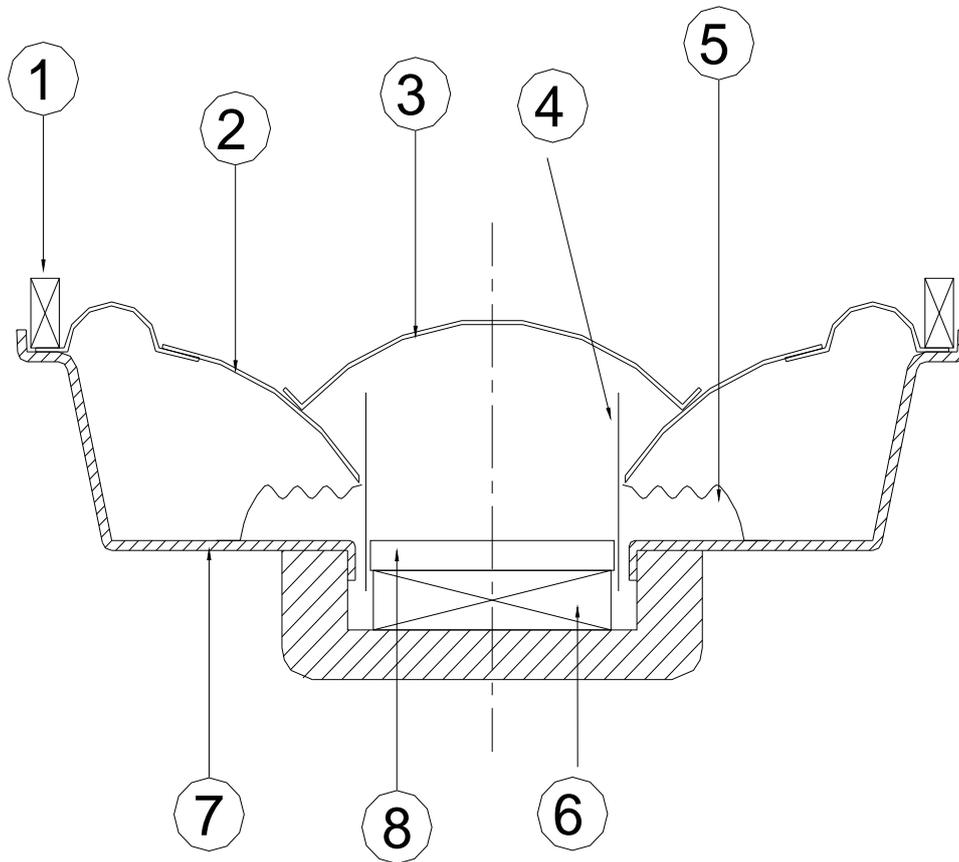


1M/1W



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6. Structure



8	Top plate	1	SPCC	
7	Frame	1	SPCC	
6	Magnet	1	N35H	
5	Spider	1	silk	
4	Voice Coil	1	PL	
3	waterproof Cap	1	Paper	
2	waterproof Cone	1	Foam+Paper	
1	Gasket	1	Paper	
No.	Part Name	Q'ty	Material	Remarks

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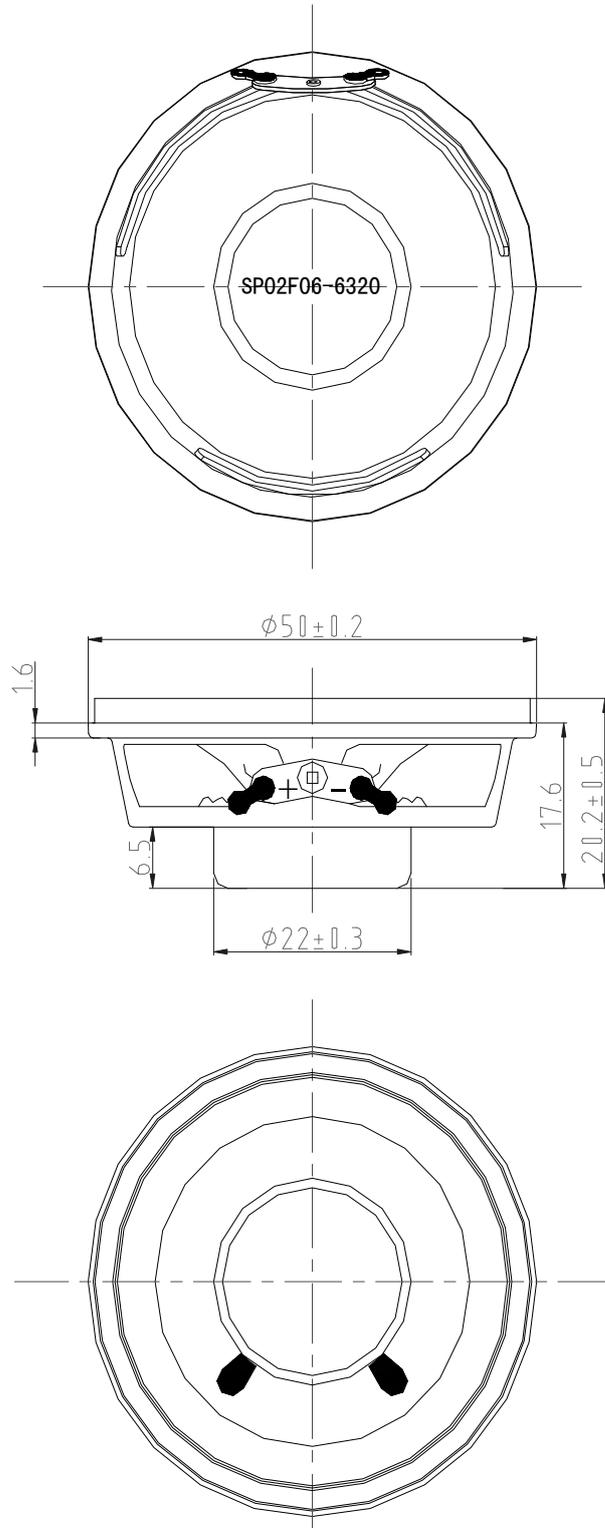
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7. Dimensions



FIRST ANGLE PROJECTION

UNIT : mm

Tolerance : ± 0.2

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8. Packing

Each minimum package unit of products shall be in a carton box and it shall be clearly marked with Part Number ,quantity and outgoing inspection number.

There shall be no mechanical damage on products during transportation and/or in storage.



QTY:216PCS
SIZE:440*290*235MM

