SPECIFICATION

Customer : 上海禹华

Applied To :

Product Name : Speaker

Model Name : KP1634SS1

Drawing No. : KFC1889

Signature of Approval

Signature of KEPO

Approved by	Checked by	Issued by	Date

ISO9001 Certificate

Ningbo Kepo Electronics Co.,Ltd.

Address: No.25 Baoyuan Road Dongqian Lake Industrial Area
Dongqian Lake, Ningbo315121, China
Tel: +86(574)88371186, 88370330 Fax: +86(574)88370329
http://www.chinaacoustic.com E-mail: Sales@kepo.com.cn

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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 : 16 mm

2.2 Height : 3.5 mm

2.3 Weight : 1.80 gr.

2.4 Operating Temperature range:

-20~+70℃ without loss of function

2.5 Store Temperature range:

-40~+85℃ without loss of function

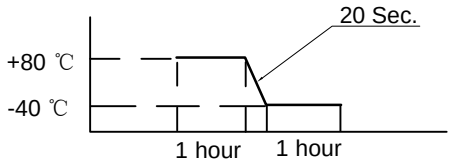
3. Electrical and Acoustic Characteristics.

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

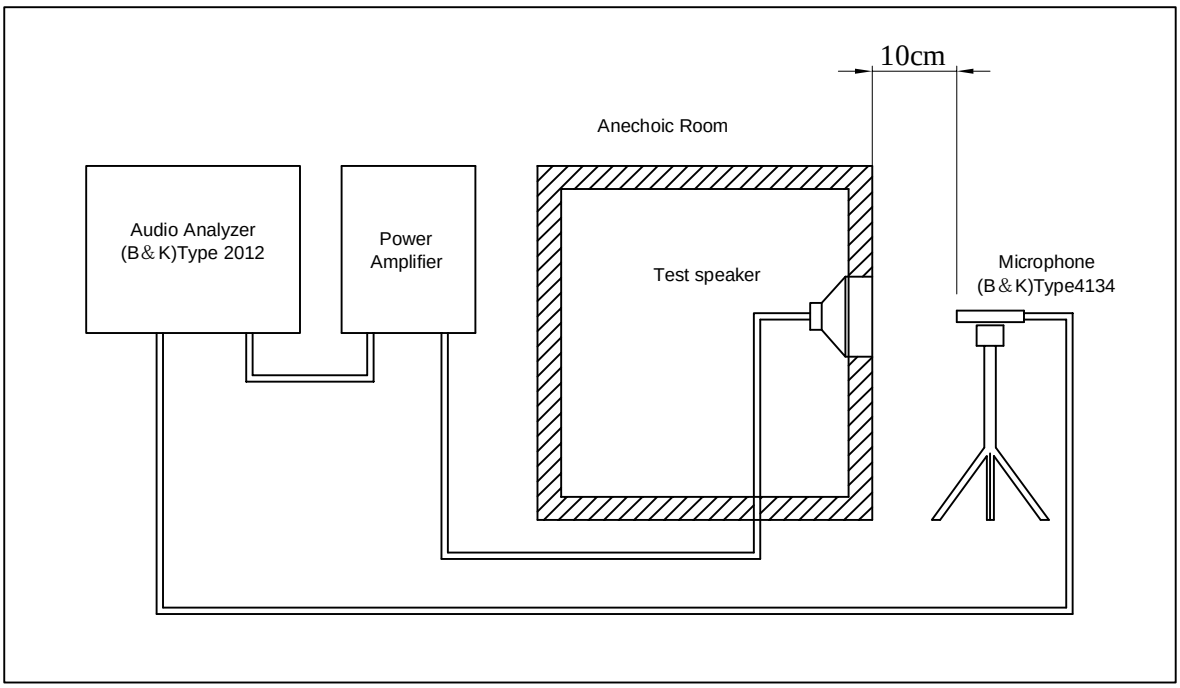
	Items	Specification
1	Impedance	8Ω ± 15%(at 1Vrms,1.5kHz)
2	Sound Pressure Level	90dB ± 3dB(1kHz/1V/0.1M)
3	Resonance Frequency	900Hz ± 20%
4	Frequency Range	F_0 ~ 20.0kHz
5	Input Power	Rated 0.5W / Max.1.0W
6	Distortion	<10% Max. at 2kHz/2Vrms
7	Buzz and Rattle	Should not be audible buzzes,rattles when the 2.0V sine wave signal swept at frequency range.

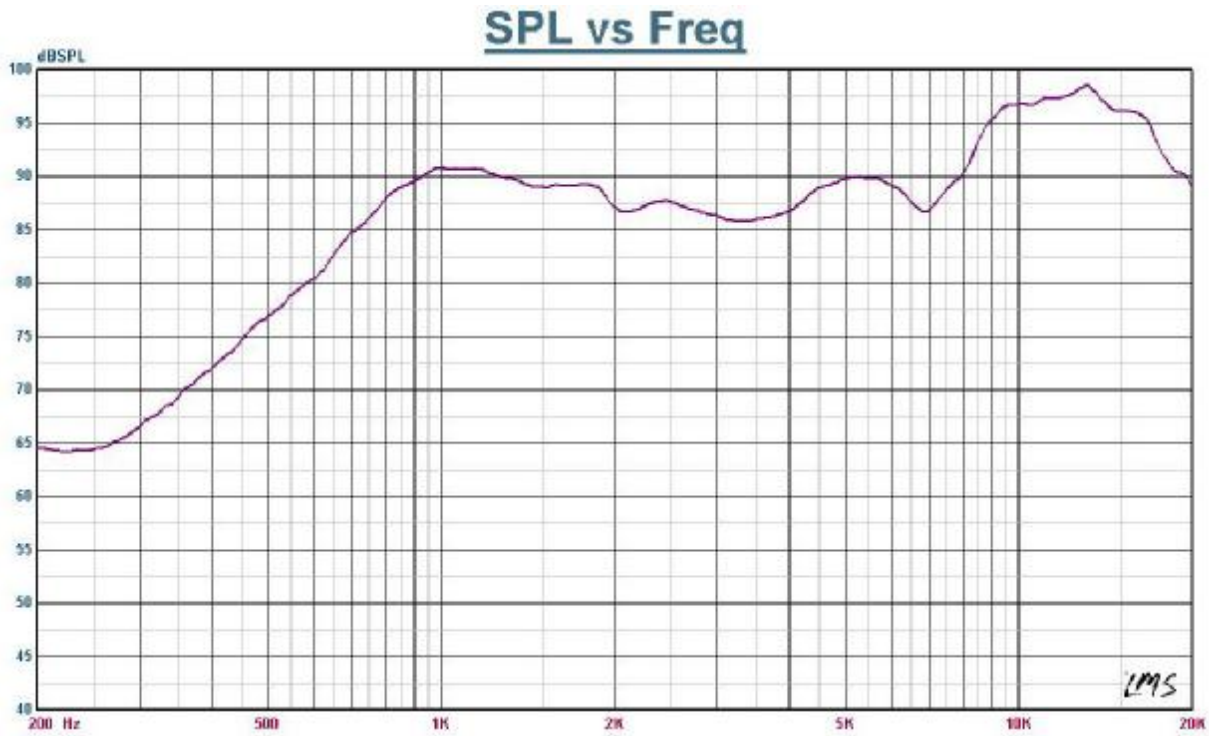
4. Reliability Test

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).

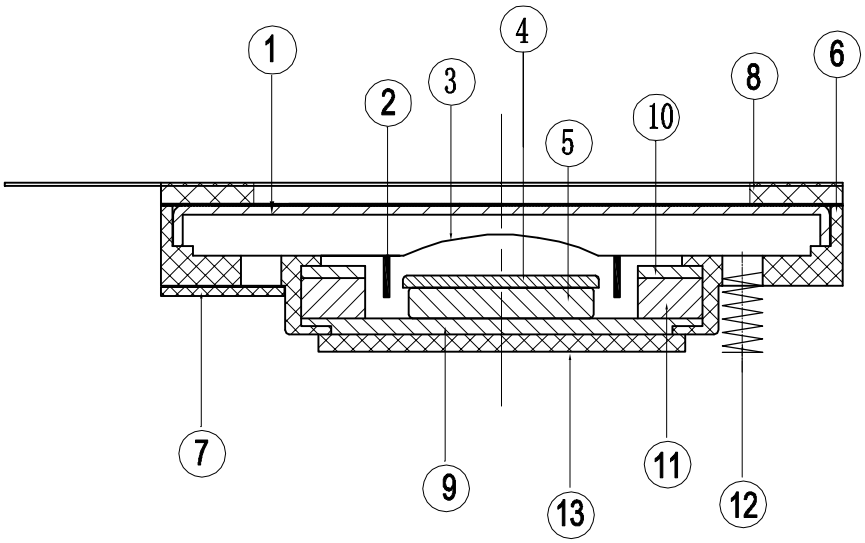
	Item	Specification
1	High Temperature Test	After being placed in a chamber with +85± 3 ℃ for 96 hours and then being placed in natural condition for 1 hour, speaker shall be measured.
2	Low Temperature Test	After being placed in a chamber with -40± 3 ℃ for 96 hours and then being placed in natural condition for 1 hour, speaker shall be measured.
3	Humidity Test	After being placed in a chamber with 85 to 90%R.H. at +40± 2 ℃ 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 +80 ℃ for 1 hour, then speaker shall be placed in a chamber at -40 ℃ for 1 hour(1 cycle is the below diagram). After 6 above cycles, speaker shall be measured after being placed in natural condition for 1 hour. 
5	Vibration Test	After being applied vibration of amplitude of 1.5mm with 10 to55Hz 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 0.5W(2.0Vrms.) for 96 hours, then placed in natural condition for 1 hour, speaker shall be measured.
8	Insulation test	When they are measured with DC 100V the insulation resistance between v.c. terminal and frame must be more than 1 MΩ

5. Measurement Block Diagram & Response curve



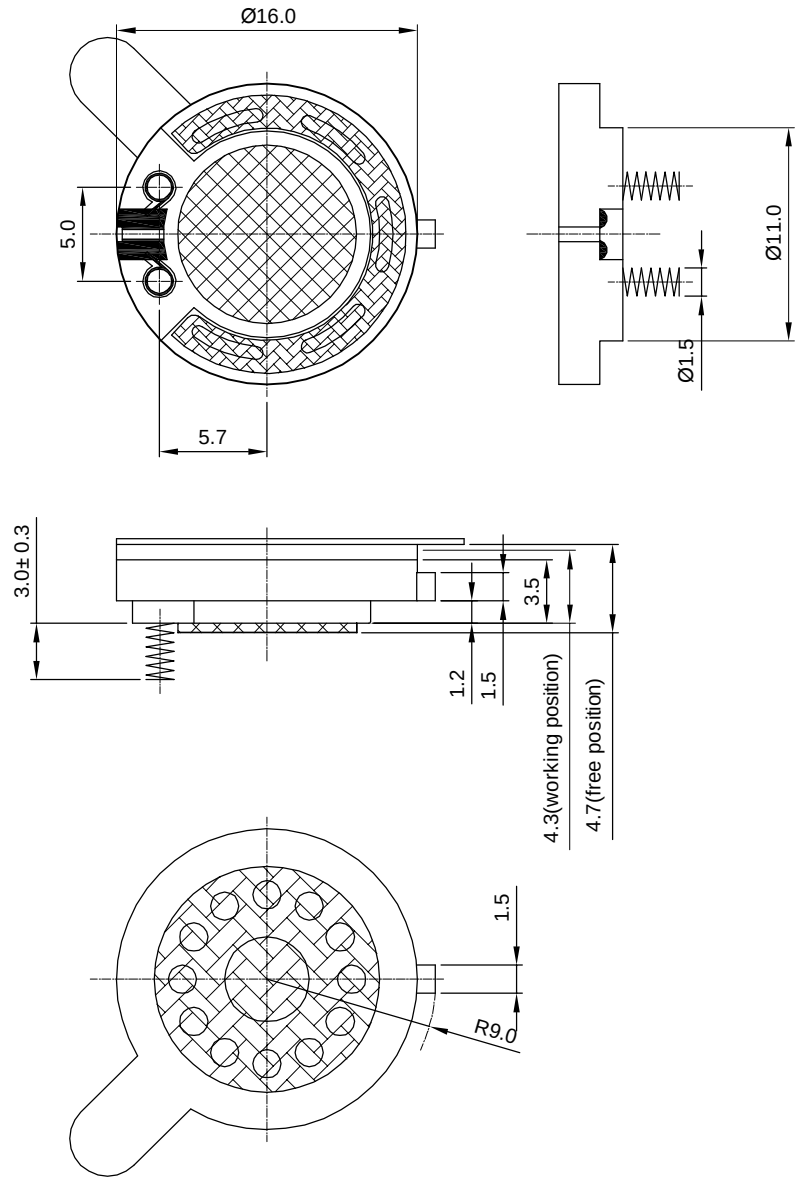


6. Structure



No.	Part Name	Q'TY	Material	Remarks
13	Cushion	1	Sponge	800+Sponge0.4
12	Spring	1	spring steel	
11	Magnet	1	Nd-Fe-B	
10	Plate	1	SPC	
9	Plate	1	SPC	
8	Gasket	1	unwoven fabric	800+2B+800+PSR0.3+800
7	Screen	1	net120#	
6	Frame	1	PBT	
5	Magnet	1	Nd-Fe-B	
4	Plate	1	SPC	
3	Diaphragm	1	PEN	
2	Coil	1	Copper	
1	Cap	1	SUS304	

7. Dimensions

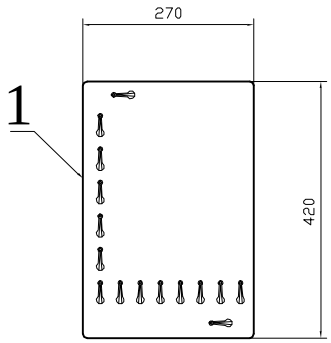


FIRST ANGLE PROJECTION

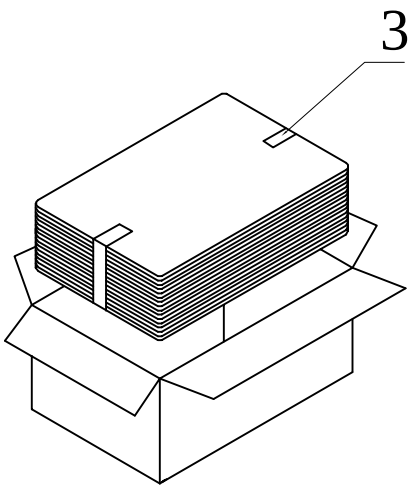
UNIT : mm

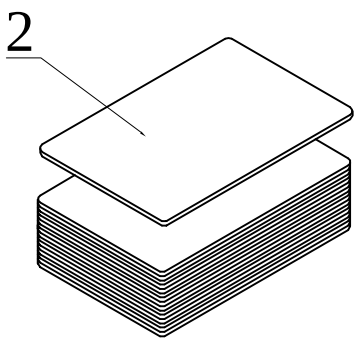
Tolerance : ± 0.2

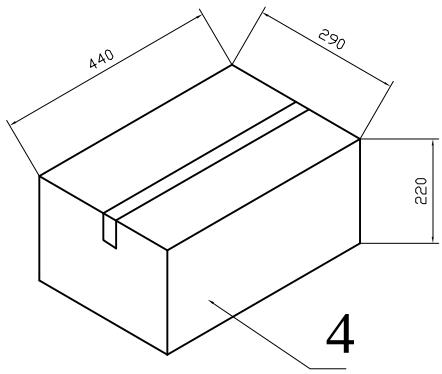
8. Packing



100Pcs







QTY: 2000Pcs

440 x290 x220

9. Revision

Rev. No.	DATE	PAGE	DESCRIPTION	BOM
1.0	2006.11.07		Primary	