SPECIFICATION

Customer : KEPO

Applied To :

Product Name : Speaker

Model Name : KP25x16SP1

Drawing No. : kf3.001.034

Signature of Approval

Signature of KEPO

Approved by	Checked by	Issued by	Date

ISO9001 Certificate

Ningbo Kepo Electronics Co.,Ltd.

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CONTENTS

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 : 25x16 mm

2.2 Height : 5.5 mm

2.3 Weight : 3.0 gr.

2.4 Operating Temperature range:

-40~+80℃ without loss of function

2.5 Store Temperature range:

-40~+80℃ without loss of function

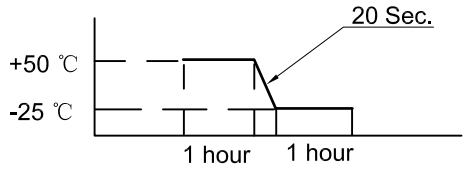
3. Electrical and Acoustic Characteristics.

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

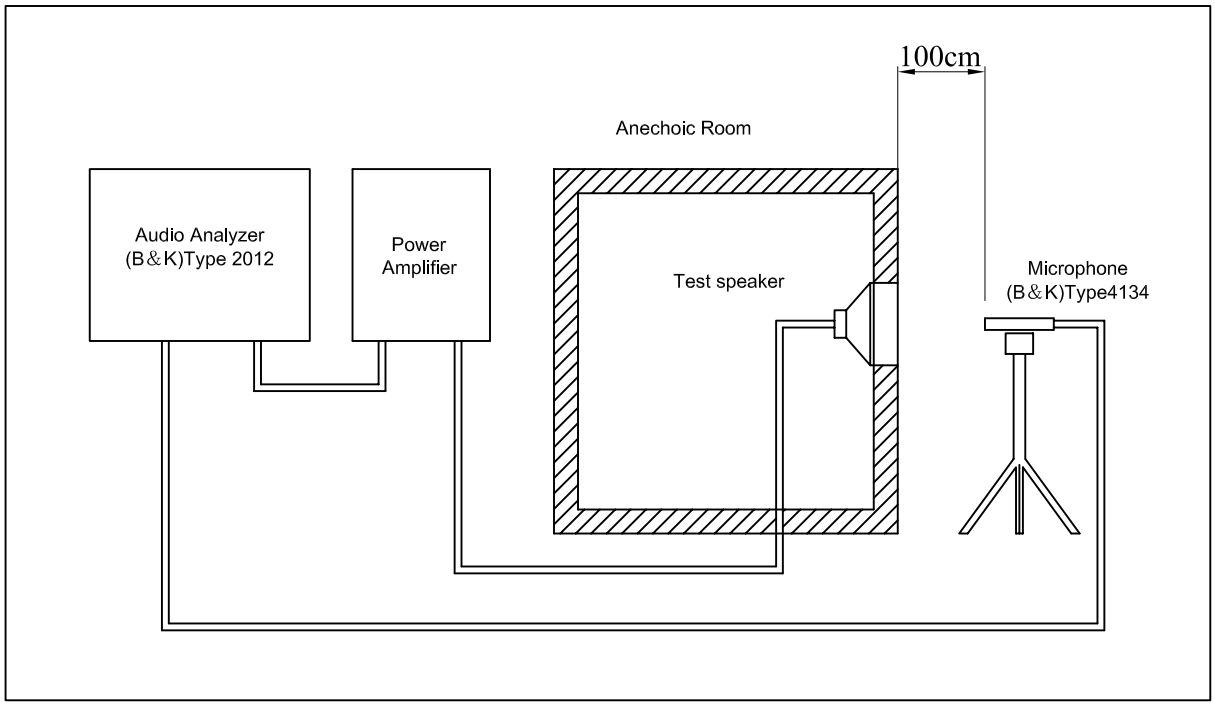
	Items	Specification
1	Impedance	8 Ω ± 15%(at 1Vrms,1kHz)
2	Sound Pressure Level	77 dB ± 3dB(1kHz/WM)
3	Resonance Frequency	800 Hz ± 20%
4	Frequency Range	F_0 ~ 15.0kHz
5	Input Power	Rated 0.8W / Max. 1.3W
6	Distortion	<5% Max. at 1kHz/2.52Vrms
7	Buzz and Rattle	Should not be audible buzzes,rattles when the 2.52V sine wave signal swept at frequency range.
8	Polarity	When supplied plus D.C. voltage to (+) terminal, the cone diaphragm must move to forward.

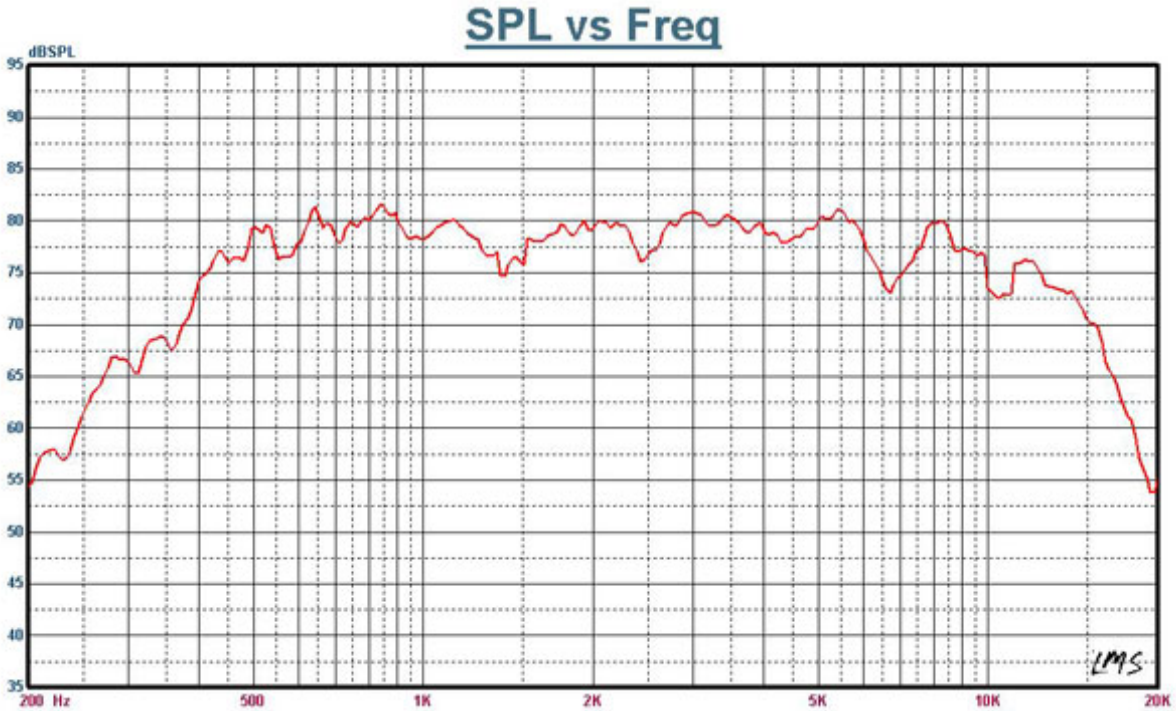
4. Reliability Test

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).

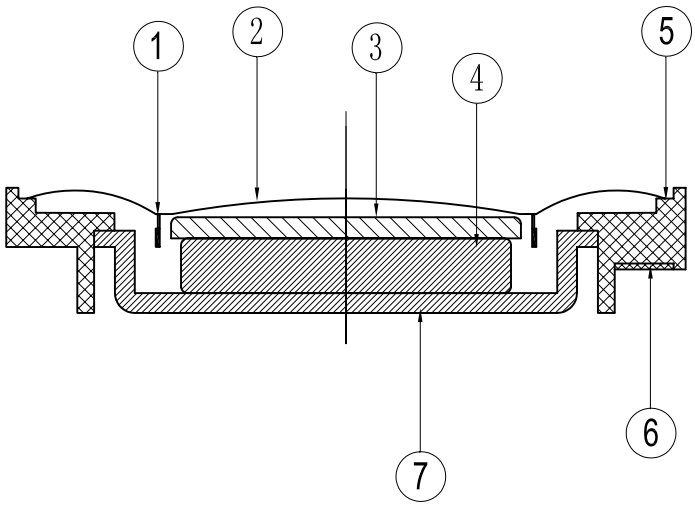
	Item	Specification
1	High Temperature Test	After being placed in a chamber with +80± 3 ℃ for 24 hours and then being placed in natural condition for 1 hour, speaker shall be measured.
2	Low Temperature Test	After being placed in a chamber with -40± 3 ℃ for 24 hours and then being placed in natural condition 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 24 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 0.8W(2.52Vrms.) for 24 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



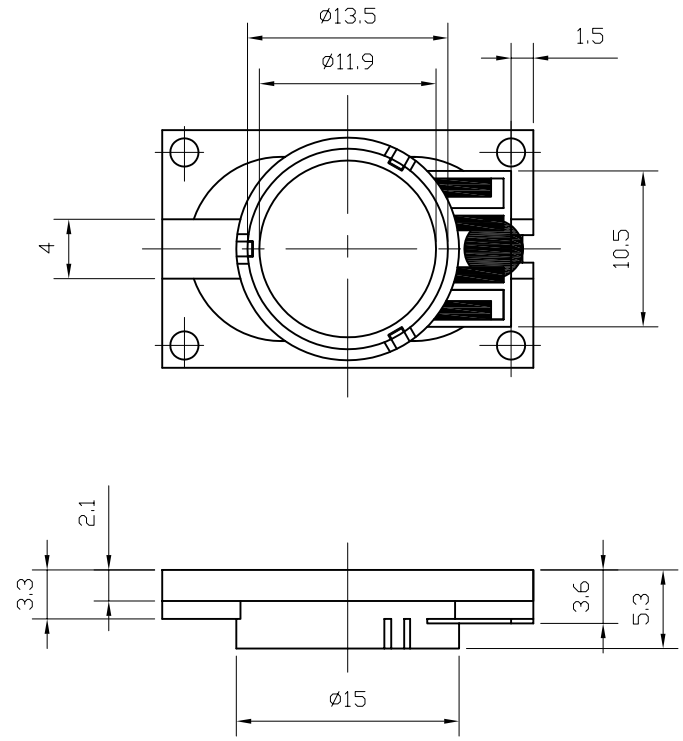


6. Structure



No.	Part Name	Q'TY	Material	Remarks
7	U Yoke	1	SPC	
6	Terminal	1	Epoxy PCB	
5	Frame	1	PBT	
4	Magnet	1	Nd-Fe-B	
3	Plate	1	SPC	
2	Diaphragm	1	Cloth	
1	Voice Coil	1	Copper	With paper tube

7. Dimensions



FIRST ANGLE PROJECTION

UNIT : mm

Tolerance : ±0.2

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.

9. Revision

Rev. No.	DATE	PAGE	DESCRIPTION	SIGN
1.0	2004.11.02		Primary	