

SPECIFICATION

Customer :	QUARTZ-1								
Applied To :									
Product Name :	Speaker								
Model Name :	KP1634SP2								
Drawing No. :	KFC3400								
Signature of Approval									
Signature of KEPO									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="padding: 5px;">Approved by</th> <th style="padding: 5px;">Checked by</th> <th style="padding: 5px;">Issued by</th> <th style="padding: 5px;">Date</th> </tr> </thead> <tbody> <tr> <td style="height: 70px;"></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Approved by	Checked by	Issued by	Date				
Approved by	Checked by	Issued by	Date						

Ningbo Kepo Electronics Co.,Ltd.

ISO9001 Certificate

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

E-mail: Sales@kepo.com.cn

Specification for Speaker		Page	2/9
Model No. : KP1634SP2		Revision No.	1.0
		Drawing No.	KFC3400

CONTENTS

1. Scope
2. General
3. Electrical and Acoustic Characteristics.
4. Reliability Test
5. Measurement Block Diagram & Response curve
6. Structure
7. Dimensions
8. Packing
9. Revision

Specification for Speaker		Page	3/9
Model No. : KP1634SP2		Revision No.	1.0
		Drawing No.	KFC3400

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.

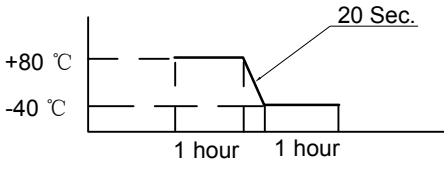
Test condition : 15 ~ 35 ℃, 25% ~ 85% RH, 860~1060 mbar

	Items	Specification
1	Impedance	$8\ \Omega \pm 15\%$ (at 1Vrms,1.5kHz)
2	Sound Pressure Level	90dB \pm 3dB(1kHz/1V/0.1M)
3	Resonance Frequency	650Hz \pm 20%
4	Frequency Range	F _o ~ 20.0kHz
5	Input Power	Rated 0.5W / Max.0.7W
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.

Specification for Speaker		Page	4/9
Model No. : KP1634SP2		Revision No.	1.0
		Drawing No.	KFC3400

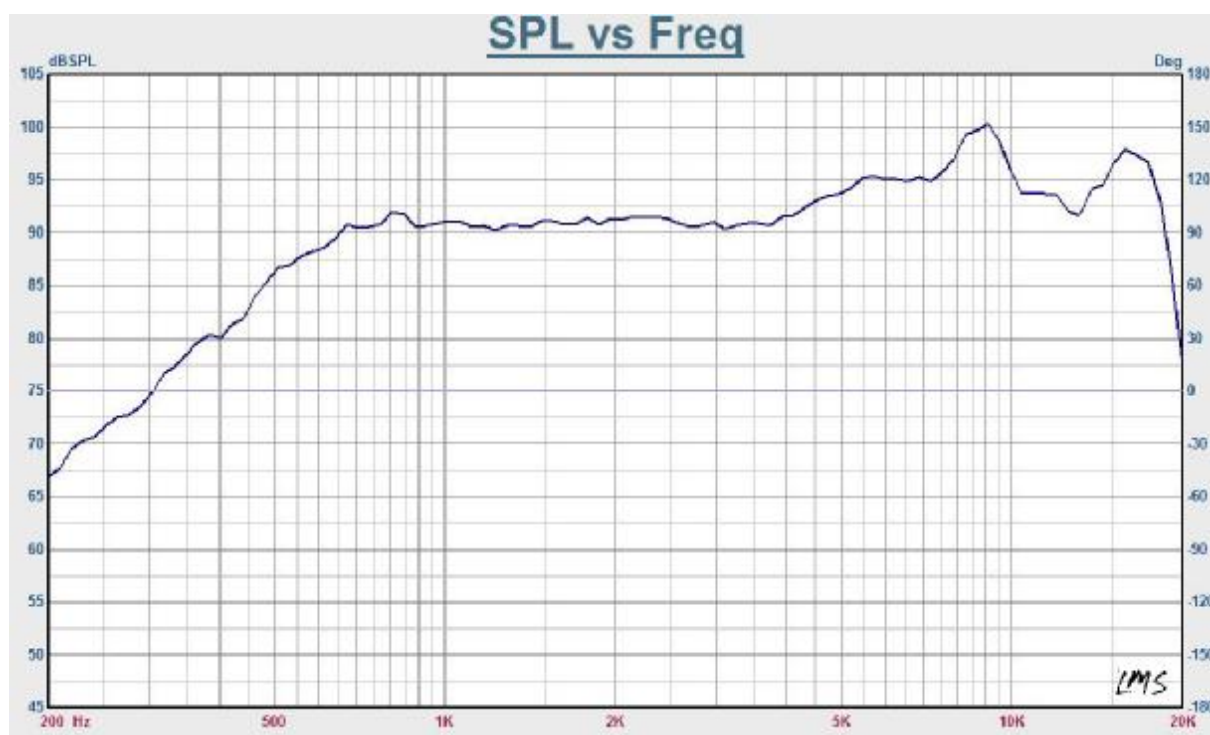
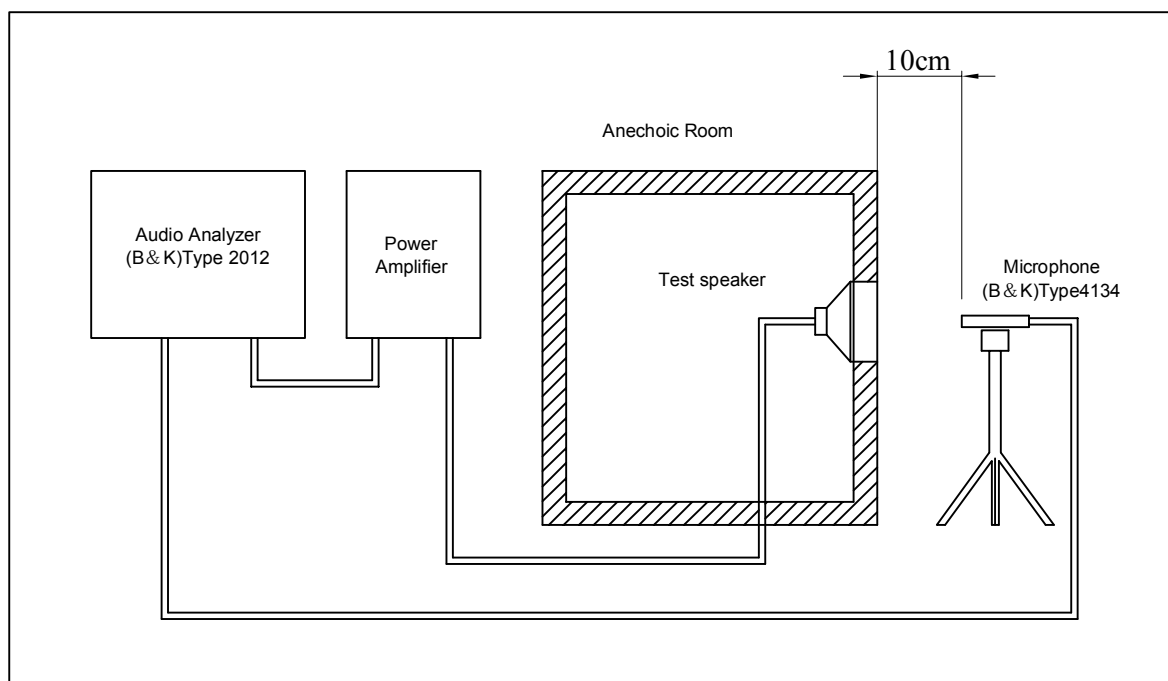
4. Reliability Test

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).

	Item	Specification
1	High Temperature Test	After being placed in a chamber with $+85\pm 3\text{ }^{\circ}\text{C}$ 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 $-40\pm 3\text{ }^{\circ}\text{C}$ 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 $+40\pm 2\text{ }^{\circ}\text{C}$ for 96 hours and then being placed in natural condition for 1 hour, speaker shall be measured.
4	Thermal Shock Test	<p>After being placed in a chamber at $+80\text{ }^{\circ}\text{C}$ for 1 hour, then speaker shall be placed in a chamber at $-40\text{ }^{\circ}\text{C}$ for 1 hour(1 cycle is the below diagram).</p> <p>After 6 above cycles, speaker shall be measured after being placed in natural condition for 1 hour.</p> 
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 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

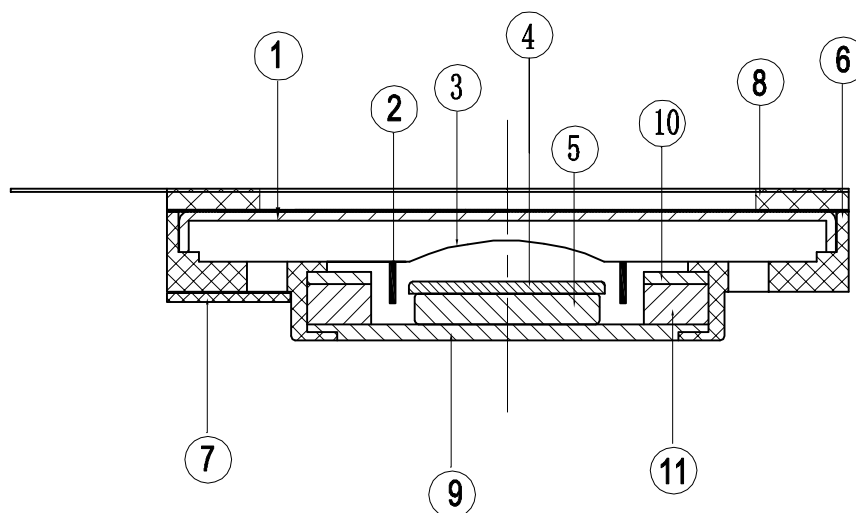
Specification for Speaker		Page	5/9
Model No. : KP1634SP2		Revision No.	1.0
		Drawing No.	KFC3400

5. Measurement Block Diagram & Response curve



Specification for Two Mode Speaker		Page	6/9
Model No. : KP1634SP2		Revision No.	1.0
		Drawing No.	KFC3400

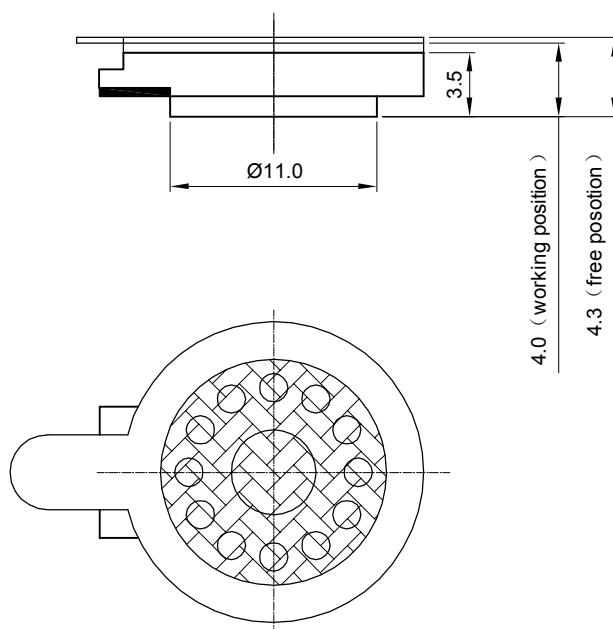
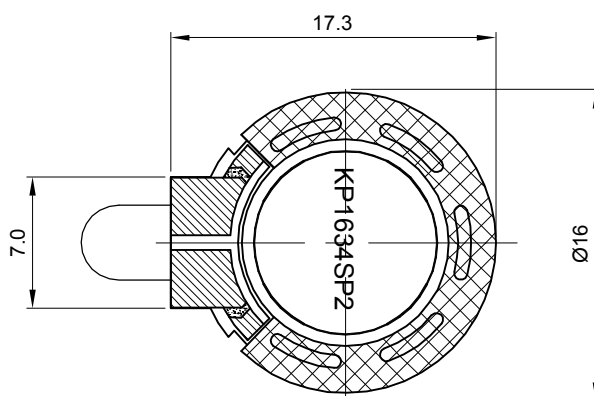
6. Structure



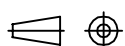
11	Magnet	1	Nd-Fe-B	
10	Plate	1	SPC	
9	Plate	1	SPC	
8	Gasket	1	unwoven fabric	800+2B+800+PSR0.3+800
7	Terminal	1	spring	
6	Frame	1	PBT	
5	Magnet	1	Nd-Fe-B	
4	Plate	1	SPC	
3	Diaphragm	1	PEN	
2	Coil	1	Copper	
1	Cap	1	SUS304	
No.	Part Name	Q'TY	Material	Remarks

Specification for Speaker		Page	7/9
Model No. : KP1634SP2		Revision No.	1.0
		Drawing No.	KFC3400

7. Dimensions



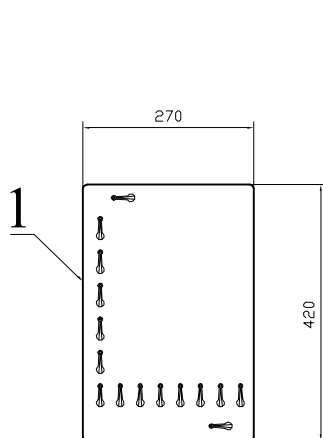
FIRST ANGLE PROJECTION



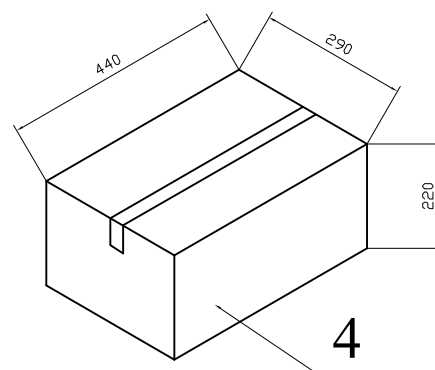
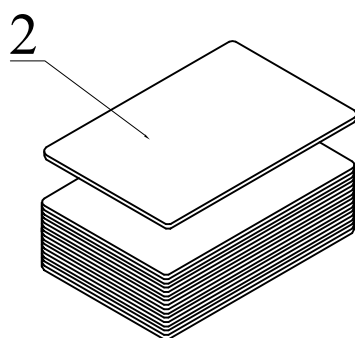
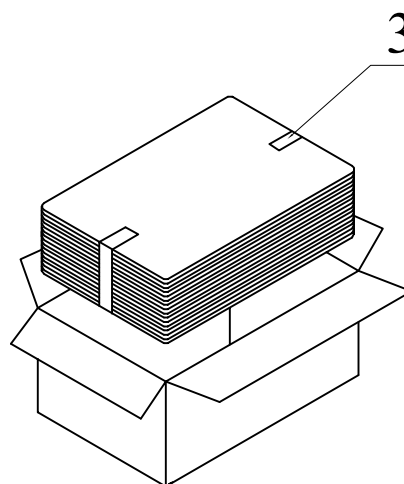
UNIT : mm
Tolerance : ± 0.2

Specification for Speaker		Page	8/9
Model No. : KP1634SP2		Revision No.	1.0
		Drawing No.	KFC3400

8. Packing



100Pcs



QTY: 2000Pcs
440 x290 x220

