SPECIFICATION Z

Customer

Applied To

Product Name: SPEAKER

Model Name: KP1530SP1-7104

Drawing No. : KFC7104

Signature of Appronal

Signature of KEPO

Approved by	Checkde by	Issued by	Date
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宁波凯普电子有限公司



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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. \dots

2. General

 2.1 Out-Diameter
 : 15 mm

 2.2 Height
 : 3.4 mm

 2.3 Weight
 : 2.2 g

2.4 Operating Temperature range:

-20~+70 °C without loss of function

2.5 Store Temperature range:

-40~+85 ℃ without loss of function

3. Electrical and Acoustic Characteristics.

Test condition : 15 ~ 35 $^{\circ}$ C, 25% ~ 85% RH, 860~1060 mbar

No	Items	Specification		
1	Impedance	8 Ω ± 15% (1Vrms at 2KHz)		
2	Sound Pressure Level	86 dB ± 3dB (0.1W/0.1M at 1,1.2,1.5,2kHz AVG)		
3	Resonance Frequency	850 Hz ± 20%		
4	Frequency Range	Fo ~20KHz		
5	Input Power	Rated 0.5 W / Max. 0.7 W		
6	Distortion	<5% Max. at 2kHz/2Vrms		
7	Buzz and Rattle	Should not be audible buzzes,rattles when the 2V sine wave signal swept at frequency range.		
8	Polarity	When supplied plus D.C. voltage to (+) terminal, the cone diaphragm must move to forward.		
9	water-proof	防水等级IP54		
10	Inductance	200±60μH		

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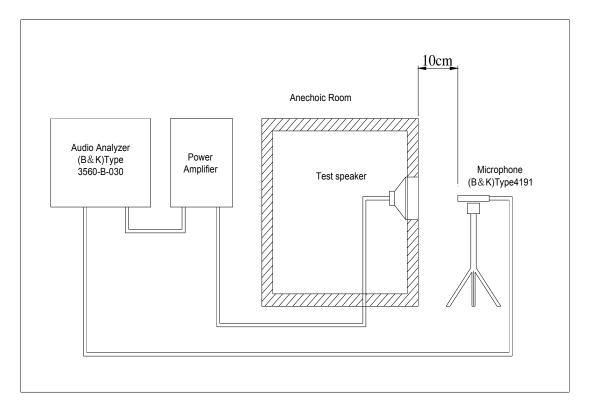
4. Reliability Test

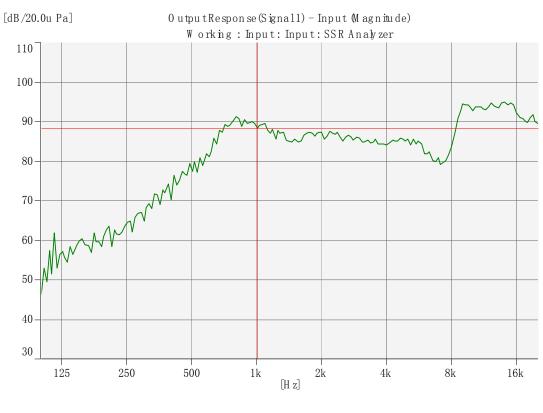
After test(1~7item), the speaker S.P.L . difference shall be within ±3dB, and the appearance not exist any change to be harmful to normal operation (e.g. cracks,rusts,damages and especially distortion).

No	Items	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 °C 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 +70°C for 1 hour, then speaker shall be placed in a chamber at -20°C 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. +70°C -20°C 1 hour 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(2Vrms.) 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 $\text{M}\Omega$

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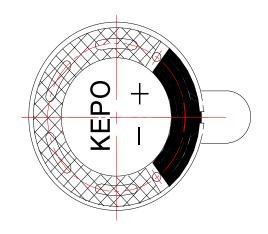
5. Measurement Block Diagram & Response curve

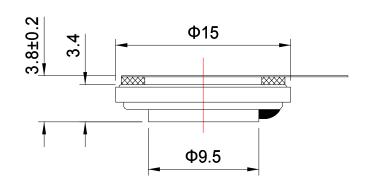


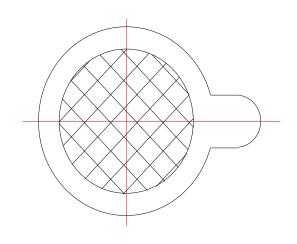


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7. Dimensions







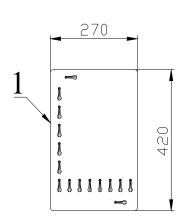
FIRST ANGLE PROJECTION



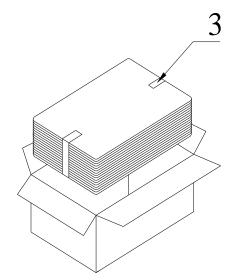
UNIT : mm
Tolerance : ±0.2

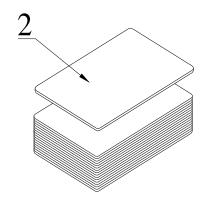
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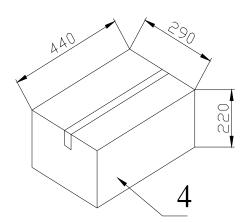
8. Packing



100Pcs







QTY: 1800Pcs 440 x290 x220

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9. Revision						
Rev. No.	DATE	PAGE	DESCRIPTION			вом
1.0	2013-4-19		Primary			
1.1	2014-6-12		Add Connecter			
1.2	2014-10-17		Delete Connecter			
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