SPECIFICATION

受　控

Customer:

Applied To:

Product Name: SPEAKER

Model Name: KP5075SP1C50-8071

Drawing No.: KFC8071

Compliance with ROHS (本品符合 ROHS 指令)

Signature of KEPO

Issued by	Checked by	Approved by	Date
			

宁波凯普电子有限公司

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1.0	2016.11.04		Primary	
Rev.	DATE	PAGE	DESCRIPTION	SIGN
Revision				

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:50mm

2.2 Height: 8.5mm

2.3 Weight:14.1g

2.4 Operating Temperature range:

-20~+50℃ without loss of function

2.5 Store Temperature range:

-30~+70℃ without loss of function

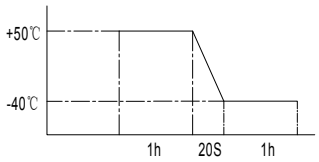
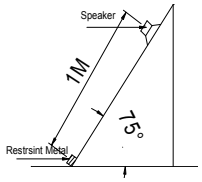
3. Electrical and Acoustic Characteristics

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

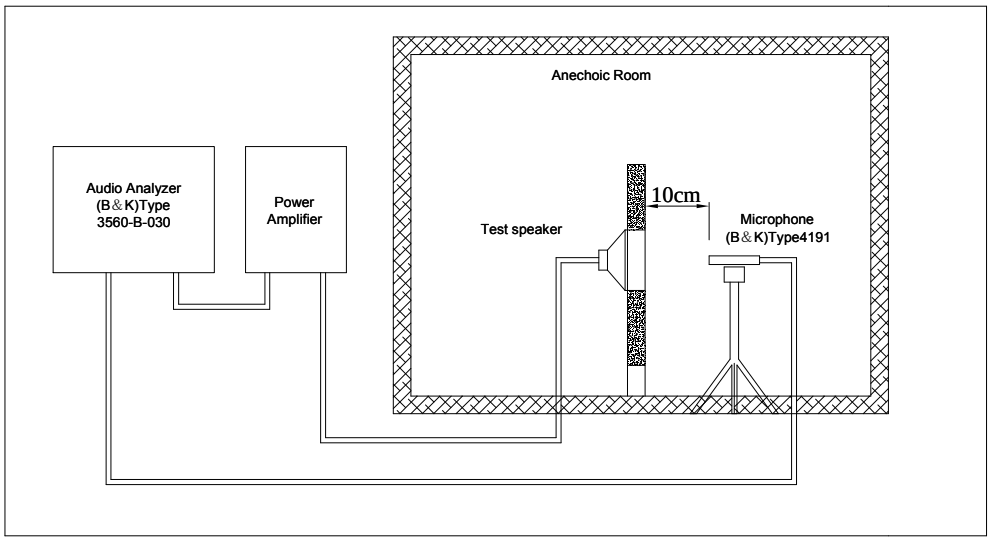
	Item	Specification
3.1	Impedance	8Ω±15%(1Vrms at 1 KHz)
3.2	Sound Pressure Level	92dB±3dB 0.1W/0.1M average at 0.6,0.8,1.0,1.2kHz
3.3	Resonance Frequency	350Hz±20% at 1V
3.4	Frequency Range	F_0 ~20KHz
3.5	Input Power	Rated 1.0W / Max. 2.0W
3.6	Distortion	<10% Max. at 1kHz/1W
3.7	Buzz and Rattle	Should not be audible buzzes, rattles when the 2.83V sine wave signal swept at frequency range.
3.8	Polarity	When supplied plus D.C. voltage to (+) terminal, the cone diaphragm must move to forward.

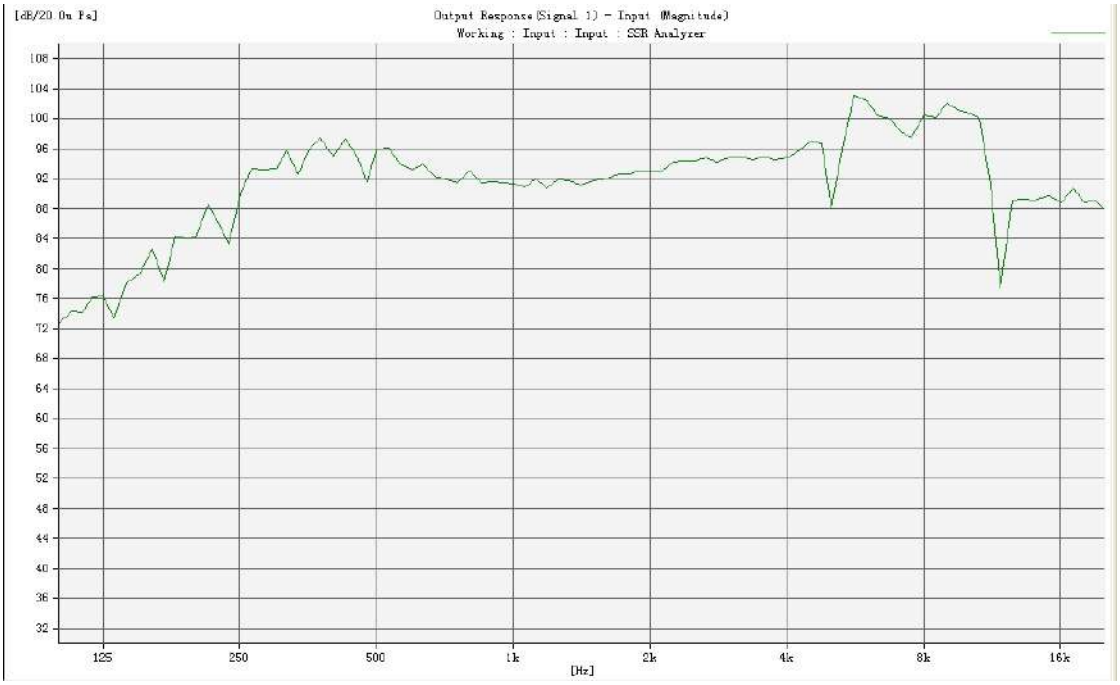
4. Reliability Test

After test(4.1~4.8item), 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).

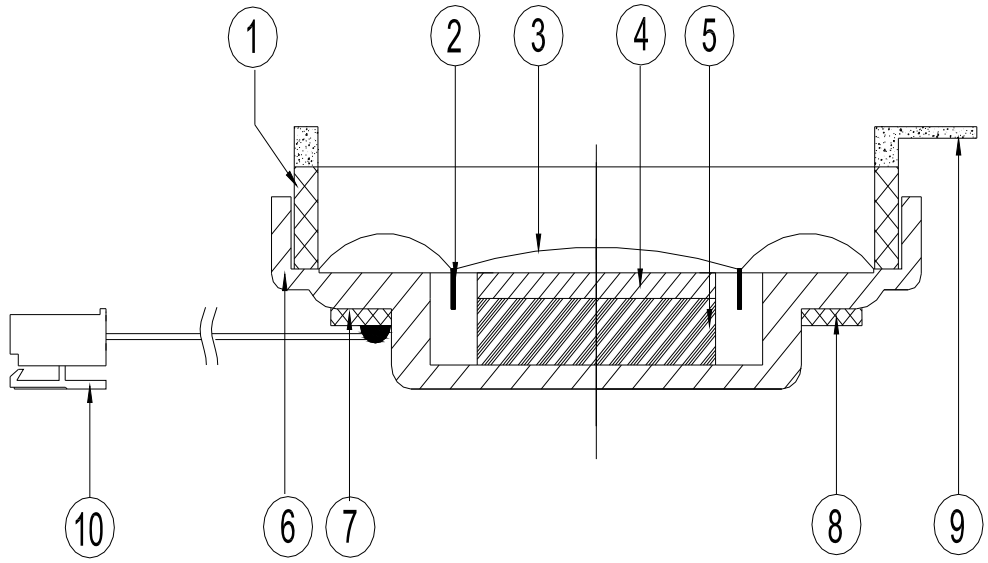
	Item	Specification
4.1	High Temperature Test	After being placed in a chamber with +75±3 ℃ for 96 hours and then being placed in natural condition for 1 hour, speaker shall be measured.
4.2	Low Temperature Test	After being placed in a chamber with -30±3 ℃ for 96 hours and then being placed in natural condition for 1 hour, speaker shall be measured.
4.3	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.
4.4	Thermal Shock Test	After being placed in a chamber at +50℃ for 1 hour, then speaker shall be placed in a chamber at -20℃ for 1 hour.(1 cycle is the below diagram). After 4 above cycles, speaker shall be measured after being placed in natural condition for 1 hour. 
4.5	Slide Test	A speaker is dropped from 1m in length on 75° inclination and a magnetic circuit of speaker is hitted to the restraint metal. After the test, magnetic circuit should not drop out and speaker should be measured. 
4.6	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.
4.7	Load test	After being applied loading white noise with input power 1.0W (2.83Vrms.) for 96 hours, then placed in natural condition for 1 hour, speaker shall be measured.
4.8	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



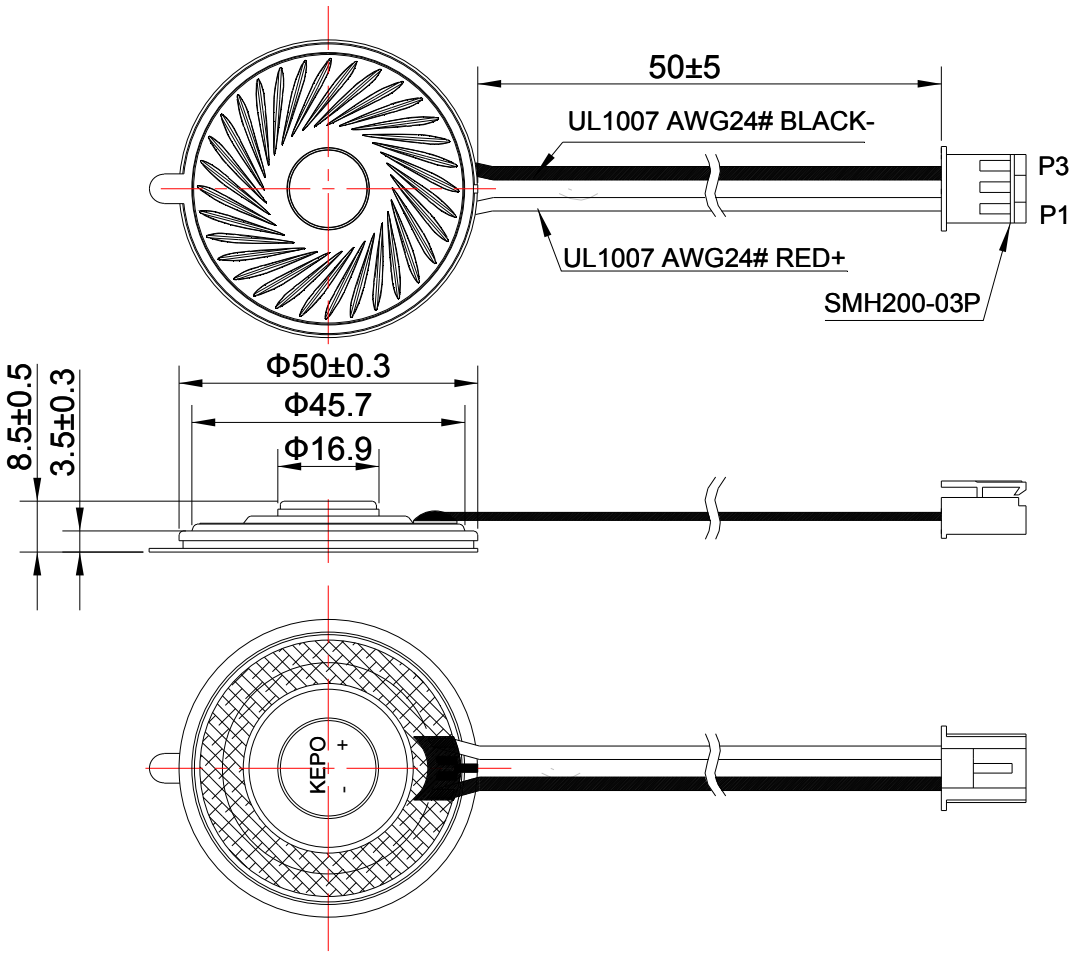


6. Structure



No.	Part Name	Q'ty	Material	Remarks
10	Connector		SMH200-03P+UL1007 AWG24#	
9	Gsaket		PSR	
8	Screen	1	Unwoven fabric	
7	Terminal	1	Epoxy	
6	Frame	1	SPCC	
5	Magnet	1	Nd-Fe-B	
4	Plate	1	SPCC	
3	Diaphragm	1	PET	
2	Voice Coil	1	Copper+Paper	
1	Gasket	1	Paper	

7. Dimensions

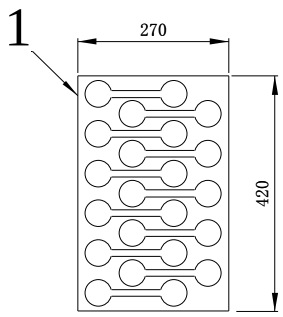


FIRST ANGLE PROJECTION

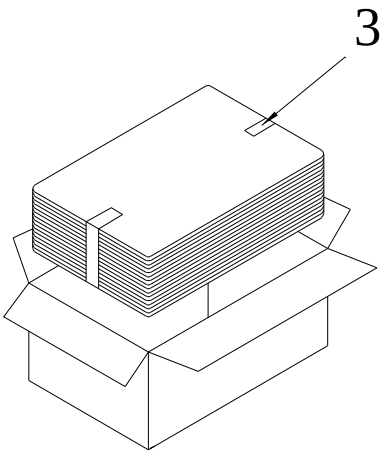
UNIT：mm

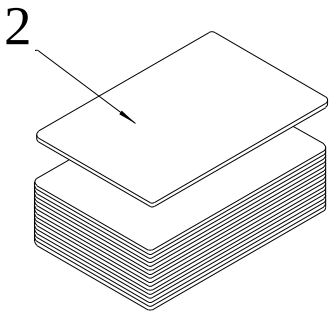
Tolerance：±0.2

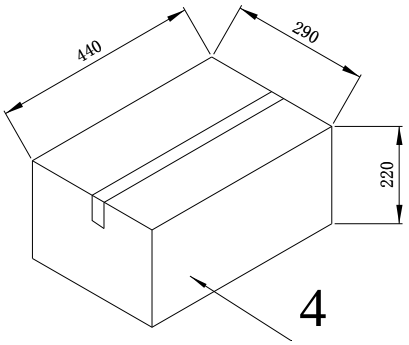
8. Packing



22Pcs







QTY:330Pcs

440 x290 x220