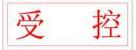
# SPECIFICATION 受



Customer **QUARTZ** 

Applied To

Product Name: SPEAKER

Model Name : KP3642SP5R16C-7671

Drawing No. : KFC7671

Signature of Appronal

Signature of KEPO

Approved by	Checkde by	Issued by	Date
100mm	主义	忻客荣	

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. ..

#### 2. General

 2.1 Out-Diameter
 : 36 mm

 2.2 Height
 : 5 mm

 2.3 Weight
 : 8.1 g

2.4 Operating Temperature range:

-30~+70°C without loss of function

2.5 Store Temperature range:

-40~+85℃ without loss of function

#### 3. Electrical and Acoustic Characteristics.

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

No	Items	Specification		
1	Impedance	16 $\Omega$ ± 15% (1Vrms at 1KHz)		
2	Sound Pressure Level	92 dB ± 3dB (0.1W/0.1M at 0.8,1.0.1.5,2kHz average)		
3	Resonance Frequency	400 Hz ± 20% 1.0V		
4	Frequency Range	Fo ~20KHz		
5	Input Power	Rated 0.5 W / Max. 0.8 W		
6	Distortion	<5% Max. at 1kHz/2Vrms		
7	Buzz and Rattle	Should not be audible buzzes, rattles when the 2.83V sine wave signal swept at frequency range.		
8	Polarity	When supplied plus D.C. voltage to (+) terminal, the cone diaphragm must move to forward.		

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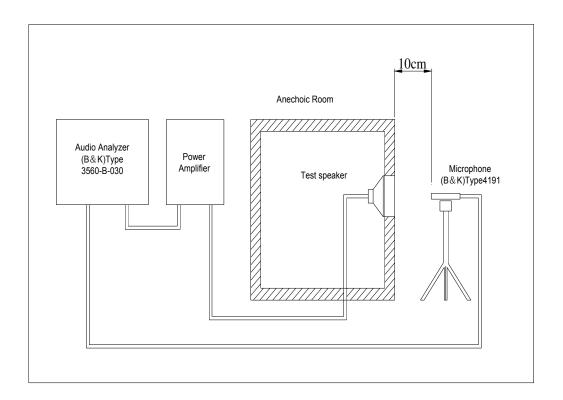
### 4. Reliability Test

After test(1~7item), the speaker S.P.L . difference shall be within  $\pm 3 dB$ , 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 °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±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 -30°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.  20 Sec.  +70°C  -30°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(2.83Vrms.) 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 $M\Omega$

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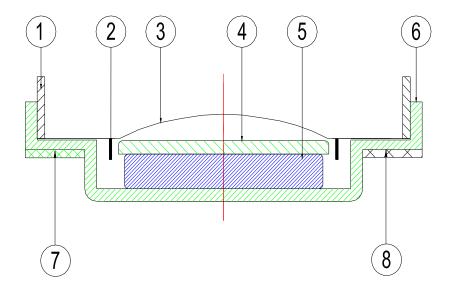
## 5. Measurement Block Diagram & Response curve





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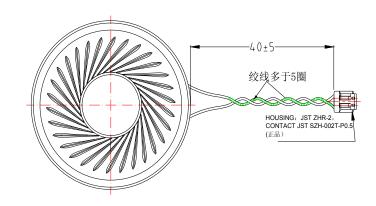
## 6. Structure

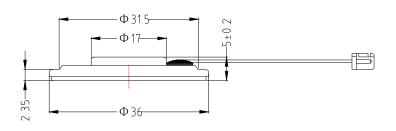


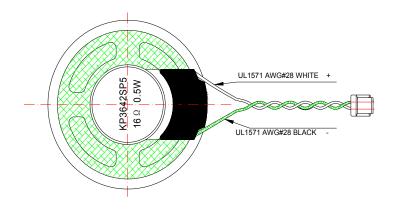
8	Screen		unwoven fabric	
7	7 Terminal		FR-4 Epoxy	
6	Frame	1	SPCC	
5	5 Magnet		Nd-Fe-B	
4	4 Plate		SPCC	
3	3 Diaphragm		PEN	
2	Voice Coil	1	Copper	
1	Gasket	1	Paper	
No.	Part Name	Q'ty	Material	Remarks

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### 7. Dimensions





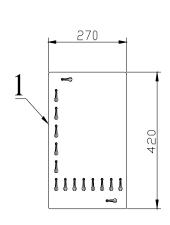


FIRST ANGLE PROJECTION

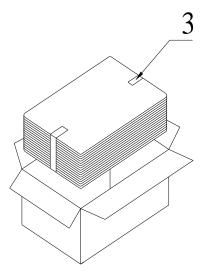
UNIT : mm
Tolerance : ±0.2

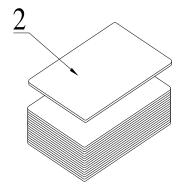
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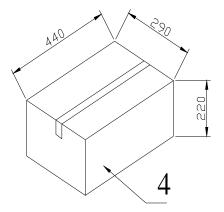
# 8. Packing



50Pcs







QTY: 800Pcs 440 x290 x220

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	9. Revision	on				
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