

SPECIFICATION

Customer : AUX
Applied To :
Product Name : Receiver
Model Name : KP0822R1
Drawing No. : KFC1678

Signature of Approval

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Signature of KEPO

Approved by	Checked by	Issued by	Date



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1. Scope

This specification is applied to the dynamic receiver 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 : \varnothing 8 mm
- 2.2 Height : 2.3 mm
- 2.3 Weight : 0.32 gr.
- 2.4 Operating Temperature range:
-40~+60 $^{\circ}$ C without loss of function
- 2.5 Store Temperature range:
-40~+85 $^{\circ}$ C without loss of function

3. Electrical and Acoustic Characteristics.

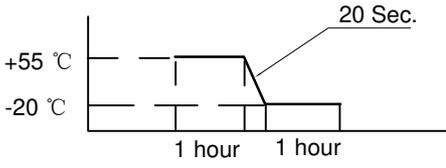
Test condition : 15 ~ 35 $^{\circ}$ C, 25% ~ 85% RH, 860~1060 mbar

	Items	Specification
1	Impedance	32 Ω \pm 15%(at 1Vrms,1.5kHz)
2	Sound Pressure Level	110dB \pm 3dB(1kHz/100mV)
3	Frequency Range	300 ~ 3400 Hz
4	Input Power	Rated 10mW / Max. 30mW
5	Distortion	<10% Max. at 2kHz/0.56Vrms
6	Buzz and Rattle	Should not be audible buzzes,rattles when the 0.56V sine wave signal swept at frequency range.

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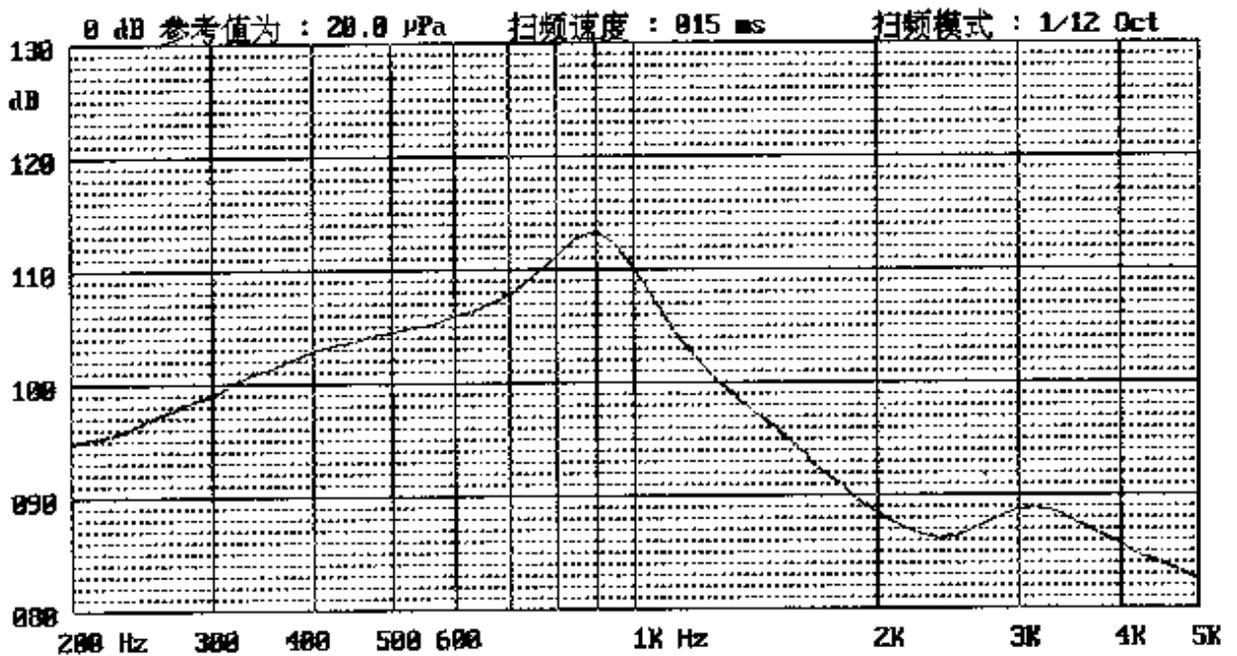
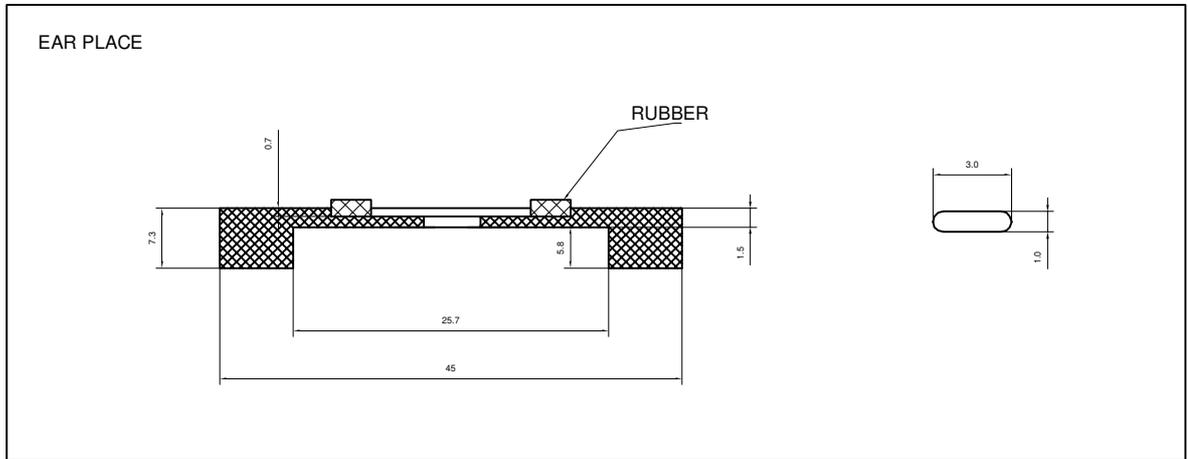
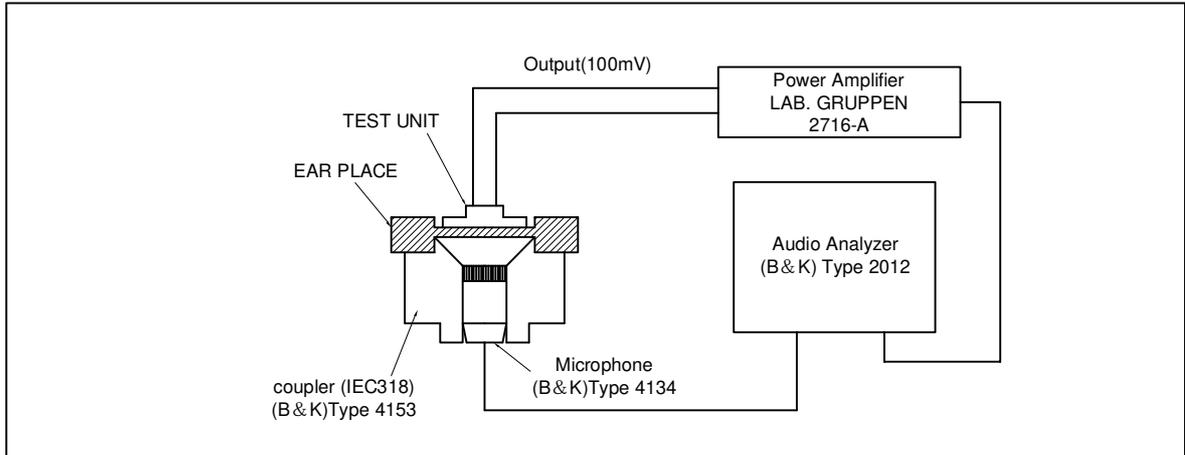
4. Reliability Test

After test(1~7item), the receiver 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 $+55\pm 3\text{ }^\circ\text{C}$ for 72 hours and then being placed in natural condition for 1 hour, receiver shall be measured.
2	Low Temperature Test	After being placed in a chamber with $-20\pm 3\text{ }^\circ\text{C}$ for 72 hours and then being placed in natural condition for 1 hour, receiver 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 72 hours and then being placed in natural condition for 1 hour, receiver shall be measured.
4	Thermal Shock Test	<p>After being placed in a chamber at $+55\text{ }^\circ\text{C}$ for 1 hour, then receiver shall be placed in a chamber at $-20\text{ }^\circ\text{C}$ for 1 hour(1 cycle is the below diagram).</p> <p>After 6 above cycles, receiver shall be measured after being placed in natural condition for 1 hour.</p>  <p>The diagram shows a temperature profile starting at $+55\text{ }^\circ\text{C}$ for a 1-hour dwell, followed by a 20-second ramp down to $-20\text{ }^\circ\text{C}$, and another 1-hour dwell at $-20\text{ }^\circ\text{C}$.</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, receiver shall be measured.
6	Drop Test	The receiver when mounted in the jig which weight 85g~100g, shall with stand 10 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 10mW(0.56Vrms.) for 96 hours, then placed in natural condition for 1 hour, receiver 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 Ω

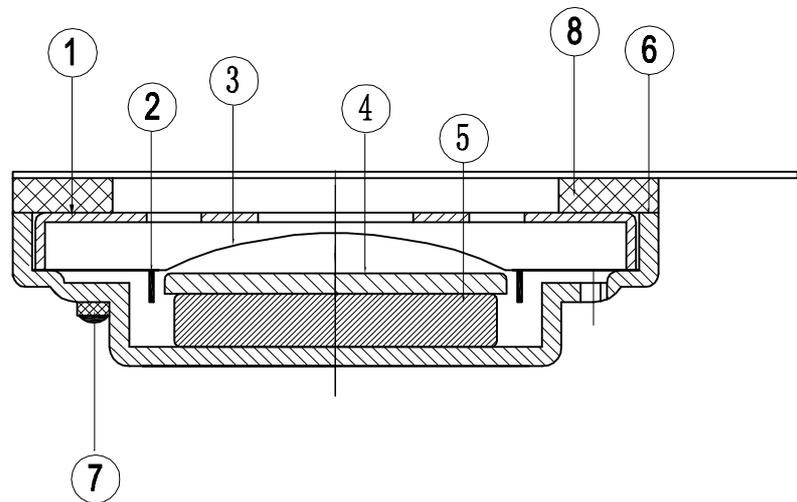
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5. Measurement Block Diagram & Response curve



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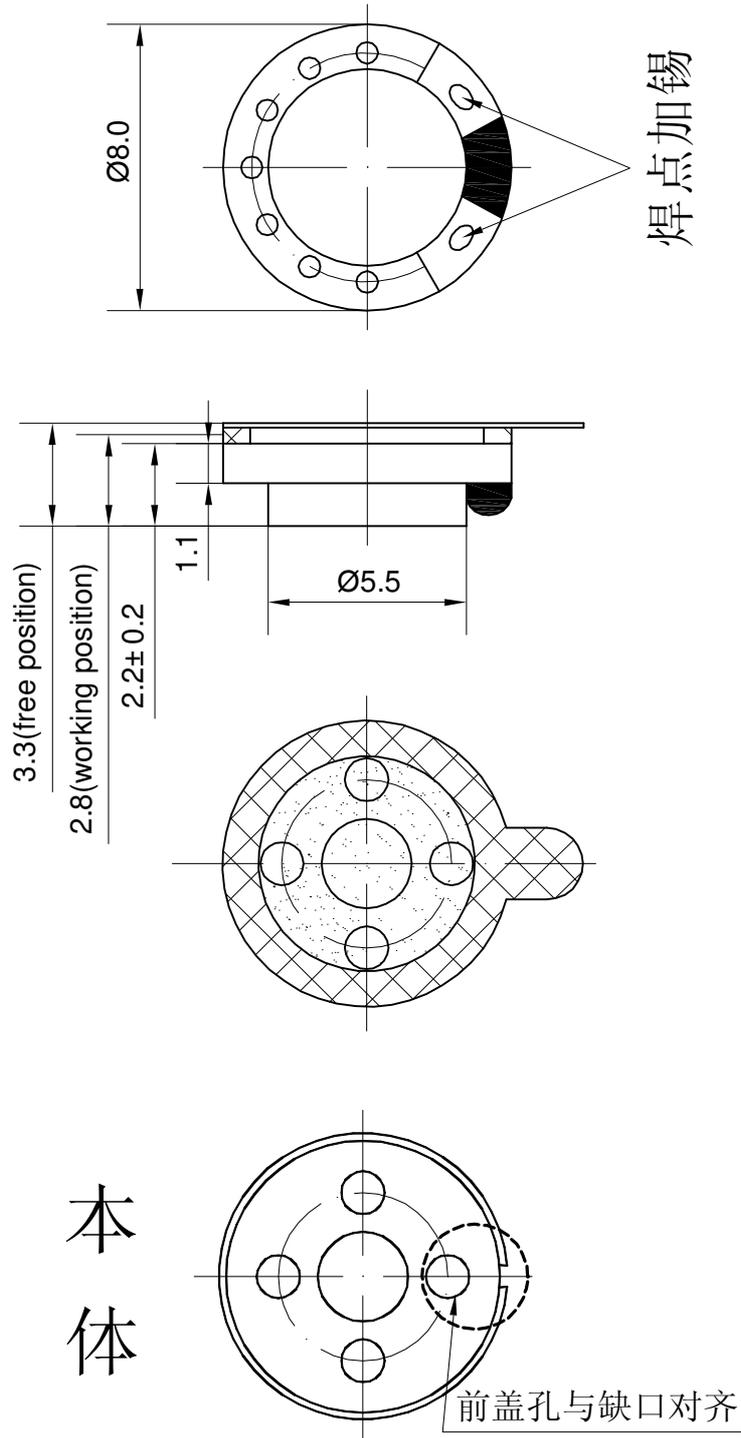
6. Structure



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

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7. Dimensions



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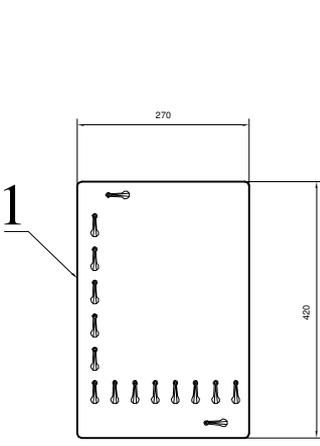
FIRST ANGLE PROJECTION



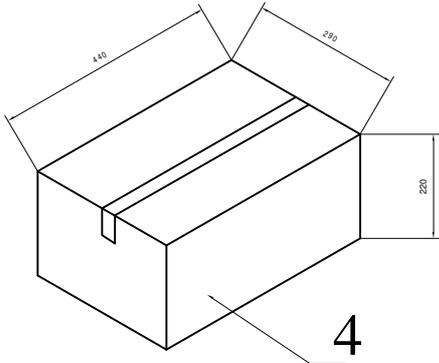
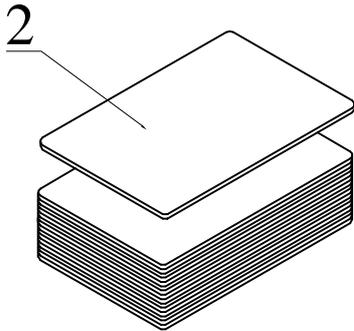
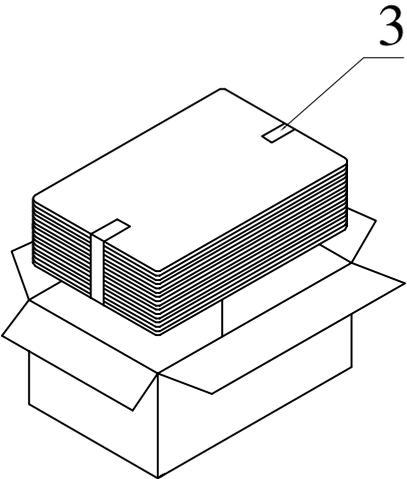
UNIT : mm
Tolerance : ± 0.2

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8. Packing



100Pcs



QTY: 2000Pcs
440 x290 x220

