

# SPECIFICATION

Customer : AUX  
Applied To :  
Product Name : Receiver  
Model Name : KP1106RT2  
Drawing No. : KFC3811

Signature of Appronal

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Signature of KEPO

Approved by	Checkde by	Issued by	Date



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Specification for Receiver		Page	2/9
Model No. : KP1106RT2		Revision No.	1.0
		Drawing No.	KFC3811
<h2>CONTENTS</h2> <ol style="list-style-type: none"><li>1. Scope</li><li>2. General</li><li>3. Electrical and Acoustic Characteristics.</li><li>4. Reliability Test</li><li>5. Measurement Block Diagram &amp; Response curve</li><li>6. Structure</li><li>7. Dimensions</li><li>8. Packing</li><li>9. Revision</li></ol>			

# Specification for Receiver

Page

3/9

Revision No.

1.0

Model No. : KP1106RT2

Drawing No.

KFC3811

## 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 : 11x6 mm

2.2 Height : 2.3 mm

2.3 Weight : 0.5 g

2.4 Operating Temperature range:

- 20~ +70℃ without loss of function

2.5 Store Temperature range:

- 40~ +85℃ without loss of function

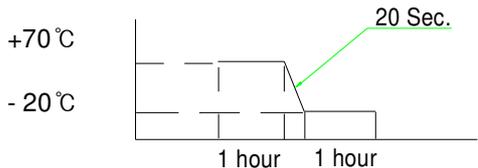
## 3. Electrical and Acoustic Characteristics.

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

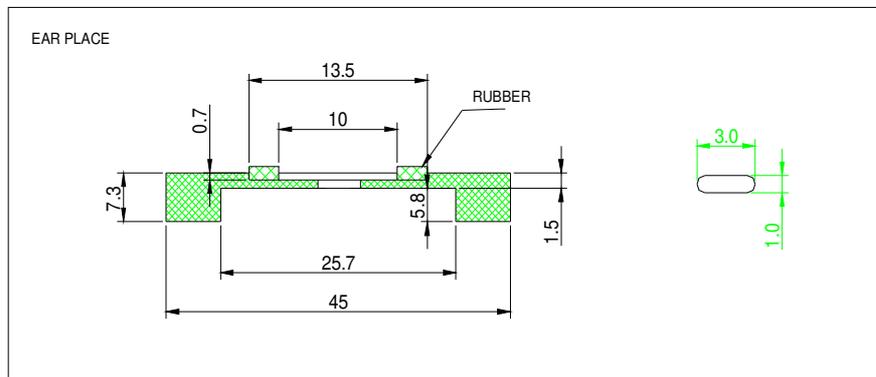
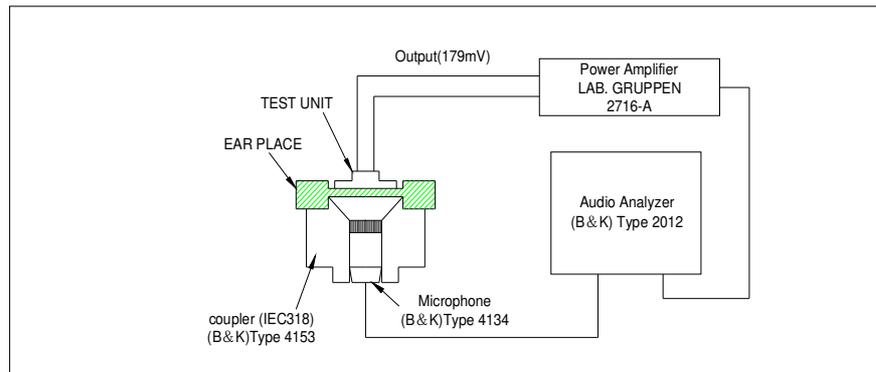
No	Items	Specification
1	Impedance	32 Ω ± 15% (1Vrms at 1KHz)
2	Sound Pressure Level	112 dB ± 3dB (179mV at 1kHz)
3	Resonance Frequency	
4	Frequency Range	300 ~ 3400 Hz
5	Input Power	Rated 10 mW / Max. 30 mW
6	Distortion	<10% Max. at 2kHz/2Vrms
7	Buss and Rattle	Should not be audible buzzes,rattles when the 0.57V sine wave signal swept at frequency range.
8	Polarity	When supplied plus D.C. voltage to (+) terminal, the cone diaphragm must move to forward.

#### 4. Reliability Test

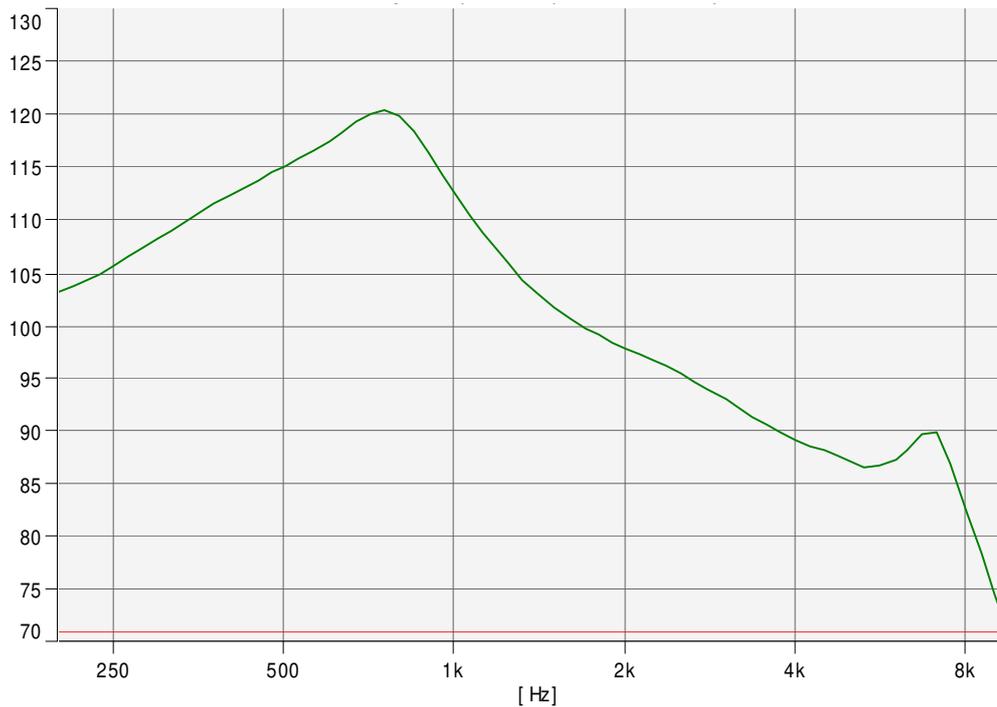
After test(1~7item), the speaker S.P.L . difference shall be within  $\pm 3\text{dB}$ , and the appearance not exist any change to be harmful to normal operation (e.g. cracks,rusts,damages and especially distortion).

No	Items	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 <math>+70\text{ }^{\circ}\text{C}</math> for 1 hour, then speaker shall be placed in a chamber at <math>-20\text{ }^{\circ}\text{C}</math> 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.</p>  <p style="text-align: center;"> <math>+70\text{ }^{\circ}\text{C}</math>  <math>-20\text{ }^{\circ}\text{C}</math> </p> <p style="text-align: center;"> <span style="margin-right: 100px;">1 hour</span> <span>20 Sec.</span>  <span>1 hour</span> </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 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 10W(17.89Vrms.) 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 $1\text{ M}\Omega$

### 5. Measurement Block Diagram & Response curve



[ dB/ 20.0000u Pa]



# Specification for Receiver

Page

6/9

Revision No.

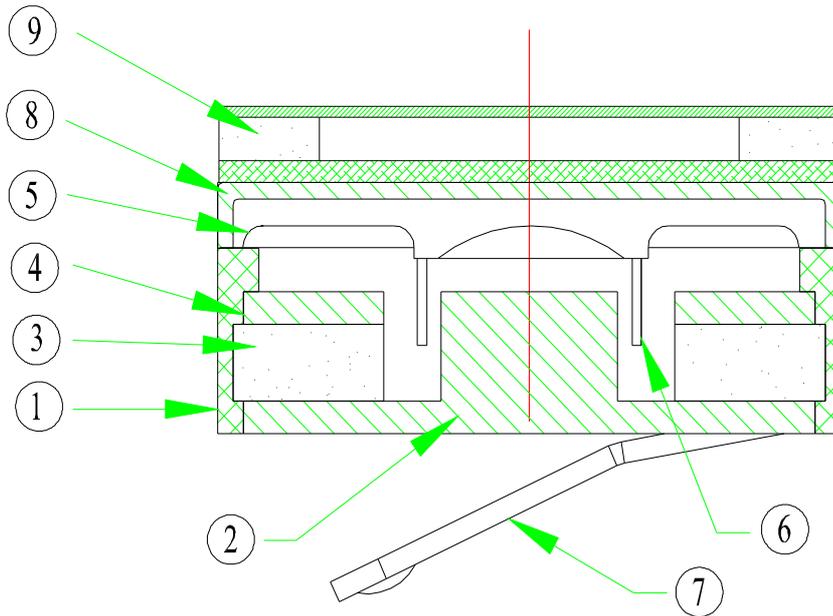
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Model No. : KP1106RT2

Drawing No.

KFC3811

## 6. Structure



No.	Part Name	Q'ty	Material	Remarks
9	Gasket	1	unwoven fabric	
8	Cap	1	SPC	
7	Spring	1	Cu	
6	Voice Coil	1	Cu	
5	Diaphragm	1	PEI	
4	Plate	1	SPC	
3	Magnet	1	Nd- Fe- B	
2	Yoke	1	SPC	
1	Frame	1	PBT	
No.	Part Name	Q'ty	Material	Remarks

# Specification for Receiver

Page

7/9

Revision No.

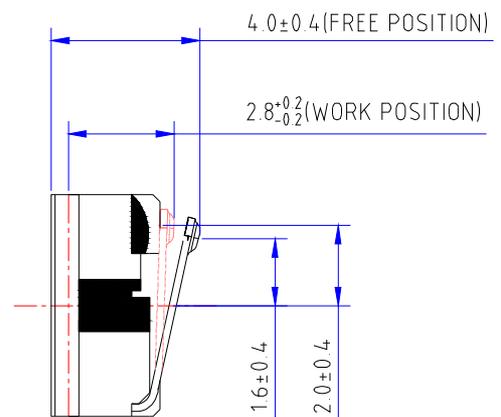
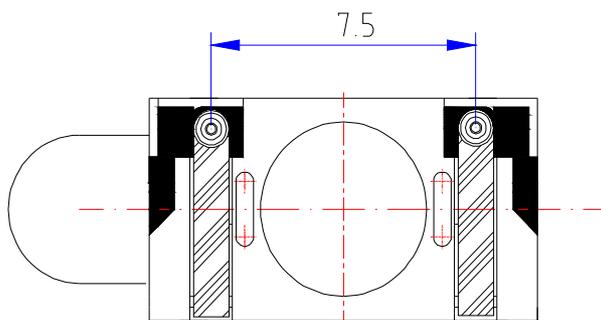
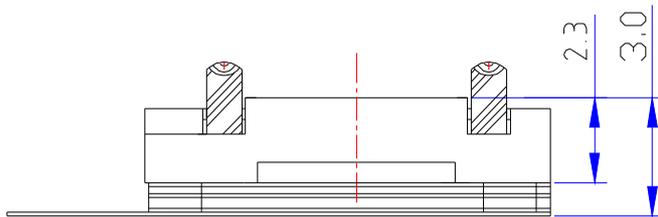
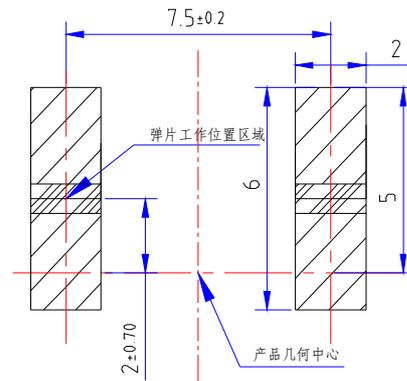
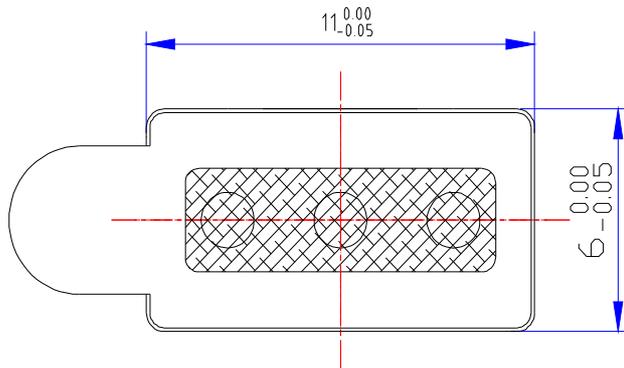
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Model No. : KP1106RT2

Drawing No.

KFC3811

## 7. Dimensions



FIRST ANGLE PROJECTION



UNIT : mm

Tolerance :  $\pm 0.2$

# Specification for Receiver

Page

8/9

Model No. : KP1106RT2

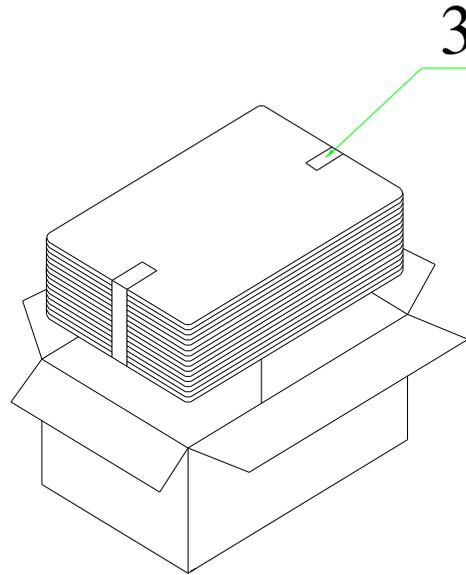
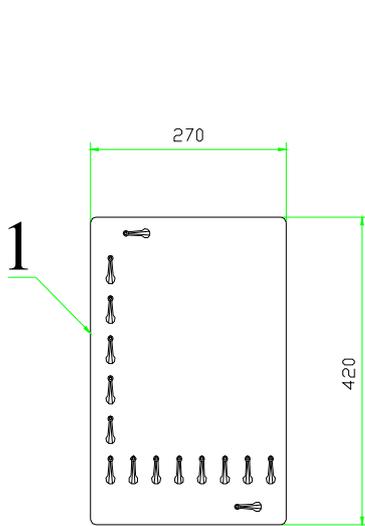
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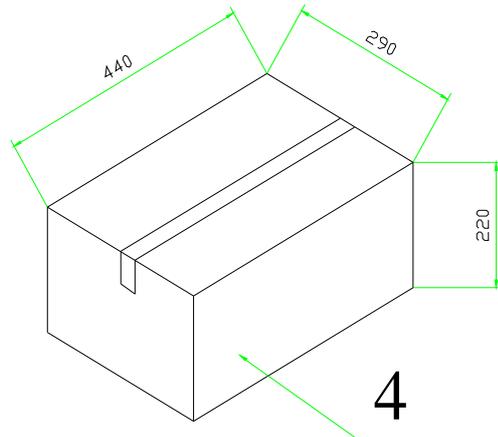
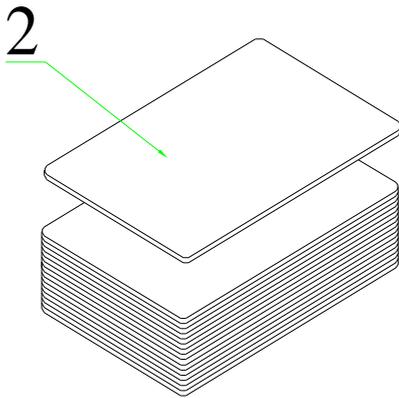
Drawing No.

KFC3811

## 8. Packing



100Pcs



QTY: 2000Pcs

440 x290 x220

