

# SPECIFICATION

Customer : 四海永通  
Applied To :  
Product Name : Receiver  
Model Name : KP1506r1-6300/D16+  
Drawing No. : KFC2250

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. : KP1506r1-6300/D16+		Revision No.	1.0
		Drawing No.	KFC2250
<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
	Drawing No.	KFC2250

Model No. : KP1506r1-6300/D16+

## 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 : 15x6 mm

2.2 Height : 2.7 mm

2.3 Weight : 0.5 g

2.4 Operating Temperature range:

-20~+70℃ without loss of function

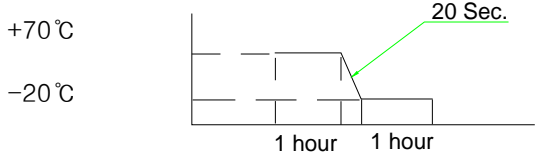
2.5 Store Temperature range:

-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	110 dB ± 3dB (179mV at 1kHz)
3	Resonance Frequency	
4	Frequency Range	300 ~ 3400 Hz
5	Input Power	Rated 0.01 W / Max. 0.03 W
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.

Specification for Receiver		Page	4/9
Model No. : KP1506r1-6300/D16+		Revision No.	1.0
		Drawing No.	KFC2250
<h3>4. Reliability Test</h3> <p>After test(1~7item), the speaker S.P.L . difference shall be within <math>\pm 3\text{dB}</math>, and the appearance not exist any change to be harmful to normal operation (e.g. cracks,rusts,damages and especially distortion).</p>			
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 be 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 be 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^{\circ}\text{C}</math> for 1 hour, then speaker shall be placed in a chamber at <math>-20^{\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> 	
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 0.01W(0.57Vrms.) 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 MΩ	

# Specification for Receiver

Page

5/9

Revision No.

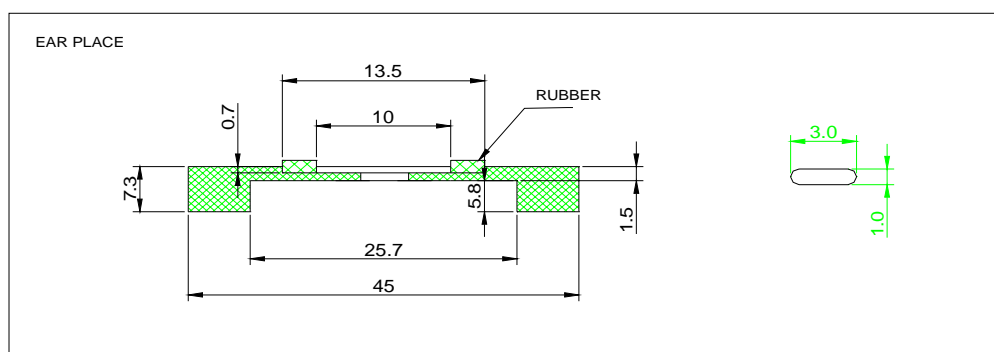
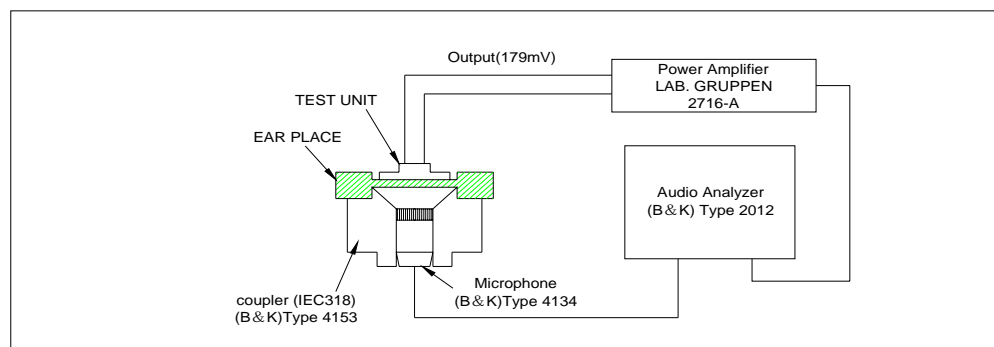
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Model No. : KP1506r1-6300/D16+

Drawing No.

KFC2250

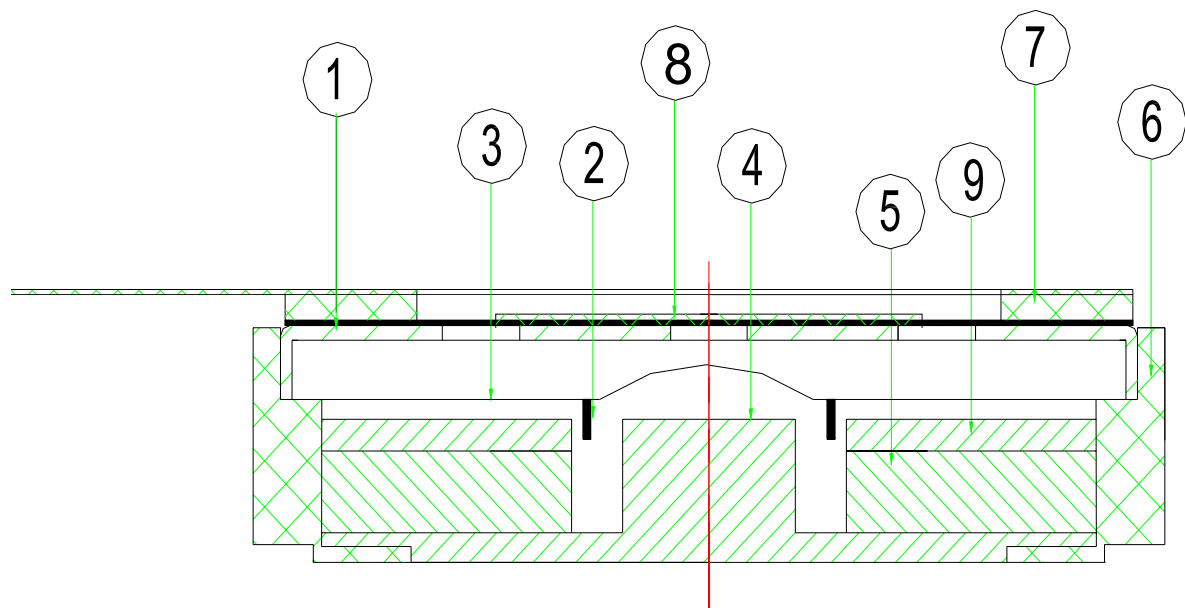
## 5. Measurement Block Diagram & Response curve



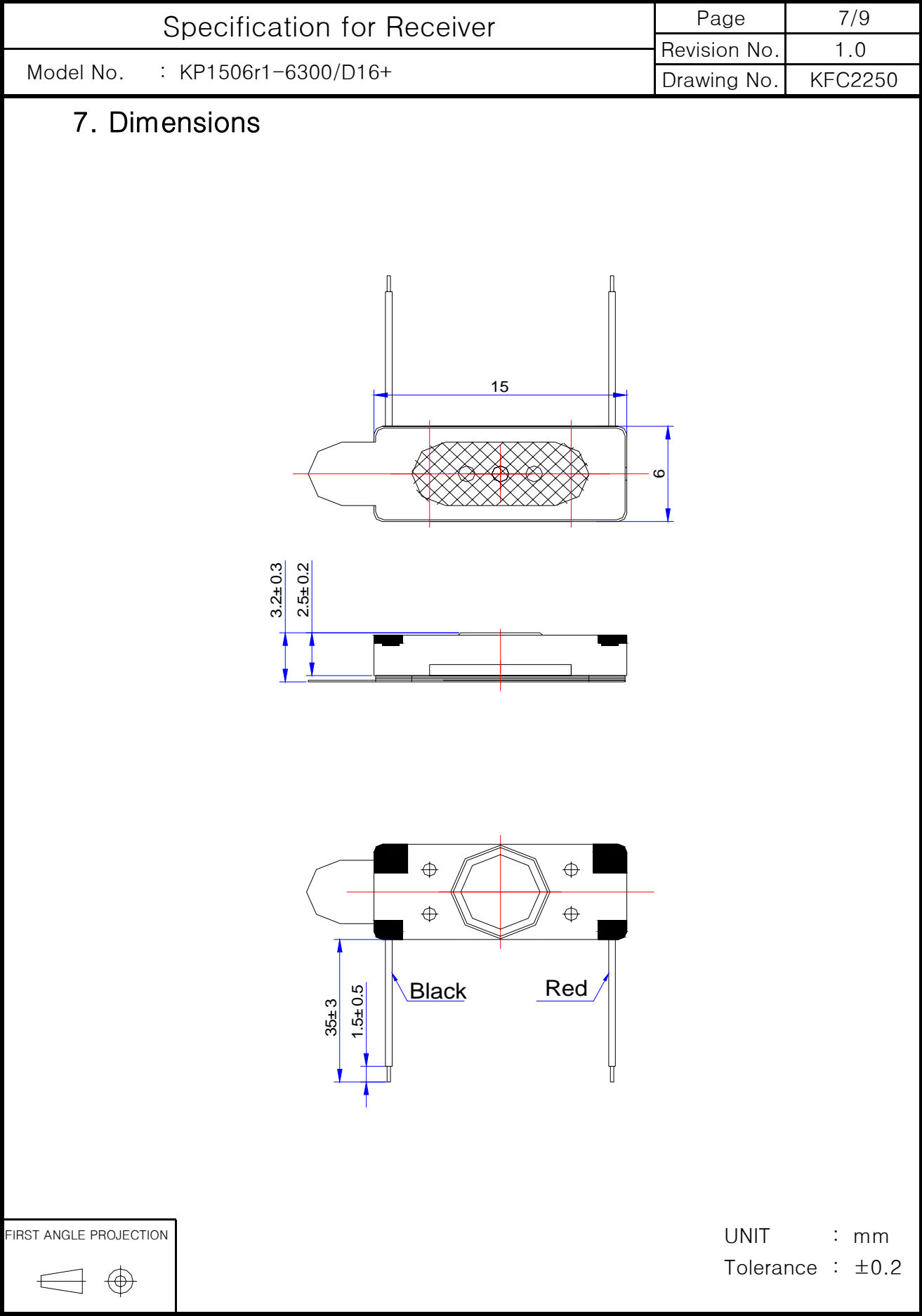
Specification for Receiver	Page	6/9
	Revision No.	1.0
	Drawing No.	KFC2250

Model No. : KP1506r1-6300/D16+

## 6. Structure



12				
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9	Plate	1	SPC	
8	Screen	1	net	
7	Gasket	1	unwoven fabirc	
6	Frame	1	PBT	
5	Magnet	1	Nd-Fe-B	
4	Yoke	1	SPC	
3	Diaphragm	1	PEI	
2	Voice Coil	1	Copper	
1	Cap	1	SUS304	
No.	Part Name	Q'ty	Material	Remarks







Specification for Receiver			Page	9/9
Model No. : KP1506r1-6300/D16+			Revision No.	1.0
			Drawing No.	KFC2250
9. Revision				
Rev. No.	DATE	PAGE	DESCRIPTION	BOM