

受 控

SPECIFICATION

Customer :

Applied To :

Product Name : Receiver



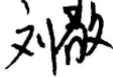
Model Name : KPDR-G150TH

Drawing No. : KF3.002.040

Signature of Approval

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Signature of KEPO

Approved by	Checked by	Issued by	Date
			

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Specification for Receiver	Page	2/10
Model No. : KPDR-G150TH	Revision No.	1.0
	Drawing No.	KF3.002.040

CONTENTS

1. Scope
2. General
3. Electrical and Acoustic Characteristics.
4. Reliability Test
- 5.1. Measurement Block Diagram
- 5.2. Response curve
- 6.1 HAC Measurement Block Diagram
- 6.2 HAC Response curve
7. Structure
8. Dimensions
9. Packing
10. Revision

Specification for Receiver		Page	3/10
		Revision No.	1.0
Model No. :	KPDR-G150TH	Drawing No.	KF3.002.040

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 : Ø35 mm

2.2 Height : 17.5mm

2.3 Weight : 32 gr.

2.4 Operating Temperature range:

-20~+55°C without loss of function

2.5 Store Temperature range:

-25~+55°C without loss of function

3. Electrical and Acoustic Characteristics.

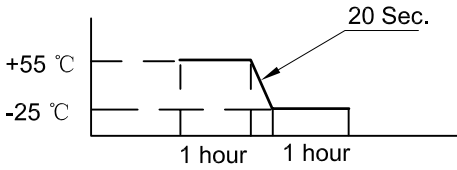
Test condition : 15 ~ 35 °C, 25% ~ 85% RH, 860~1060 mbar

	Items	Specification
1	Impedance	150 Ω ± 15%(at 1Vrms,1kHz)
2	Sound Pressure Level	101dB ± 3dB(1kHz/100mV)
3	Frequency Range	200Hz~3.5KHz
4	Input Power	Rated 10mW / Max. 50mW
5	Magnetic Field Intensity	Axial ≥ -20dB Radial ≥ -27dB at 1KHz
6	Buzz and Rattle	Should not be audible buzzes,rattles when the 10mW sine wave signal swept at frequency range.

Specification for Receiver		Page	4/10
		Revision No.	1.0
Model No. :	KPDR-G150TH	Drawing No.	KF3.002.040

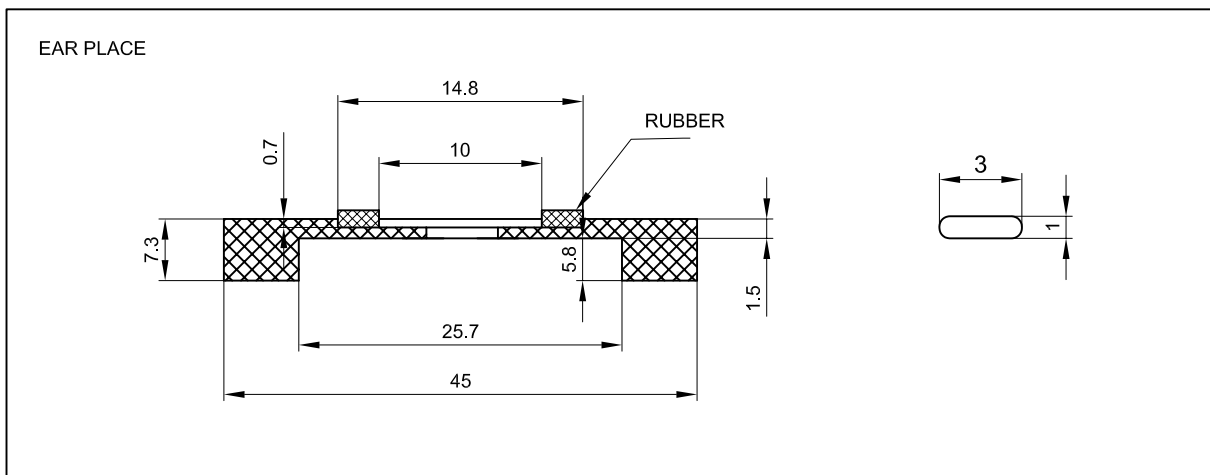
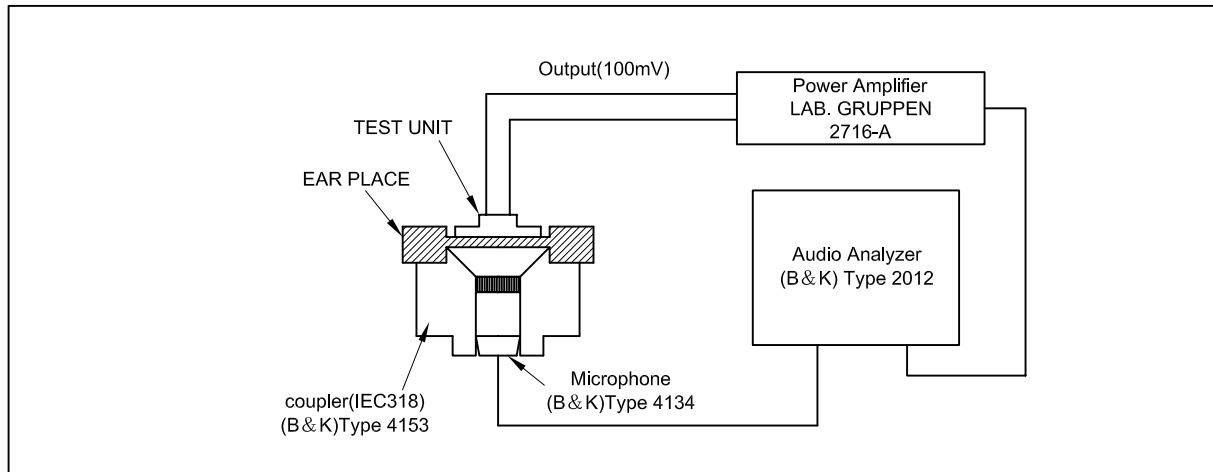
4. Reliability Test

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).

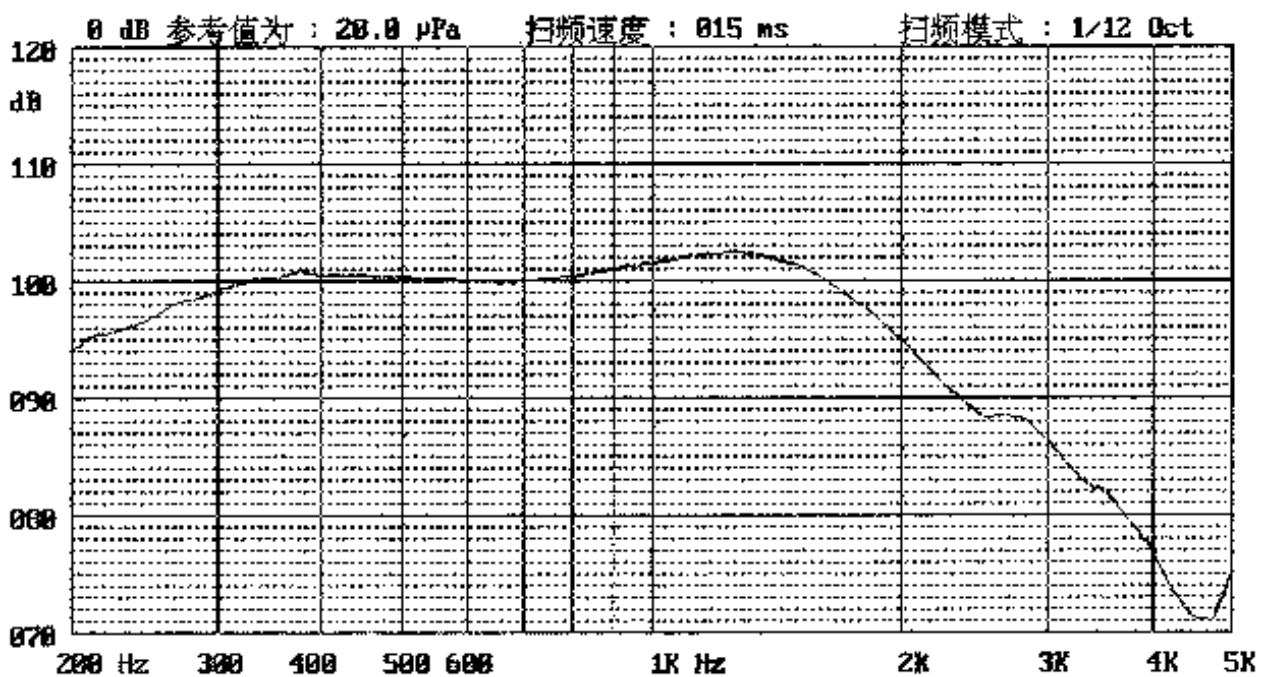
	Item	Specification
1	High Temperature Test	After being placed in a chamber with $+55\pm 3\text{ }^\circ\text{C}$ for 48 hours and then being placed in natural condition for 1 hour, speaker shall be measured.
2	Low Temperature Test	After being placed in a chamber with $-25\pm 3\text{ }^\circ\text{C}$ for 48 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 48 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 $+55\text{ }^\circ\text{C}$ for 1 hour, then speaker shall be placed in a chamber at $-25\text{ }^\circ\text{C}$ for 1 hour(1 cycle is the below diagram).</p> <p>After 6 above cycles, speaker 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. A transition line labeled '20 Sec.' shows the temperature dropping to $-25\text{ }^\circ\text{C}$, where it remains for another 1-hour dwell.</p>
5	Vibration Test	After being applied vibration of amplitude of 1.1mm 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	Drop a unit contained in normal box into a board 5mm . (3 Place each 1 time)from a height of 0.75m and then a unit must have no abnormality
7	Load test	The receiver after being applied loading white noise with input power 10mW 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 $1\text{ M}\Omega$

Specification for Receiver		Page	5/10
		Revision No.	1.0
Model No. :	KPDR-G150TH	Drawing No.	KF3.002.040

5.1 Measurement Block Diagram

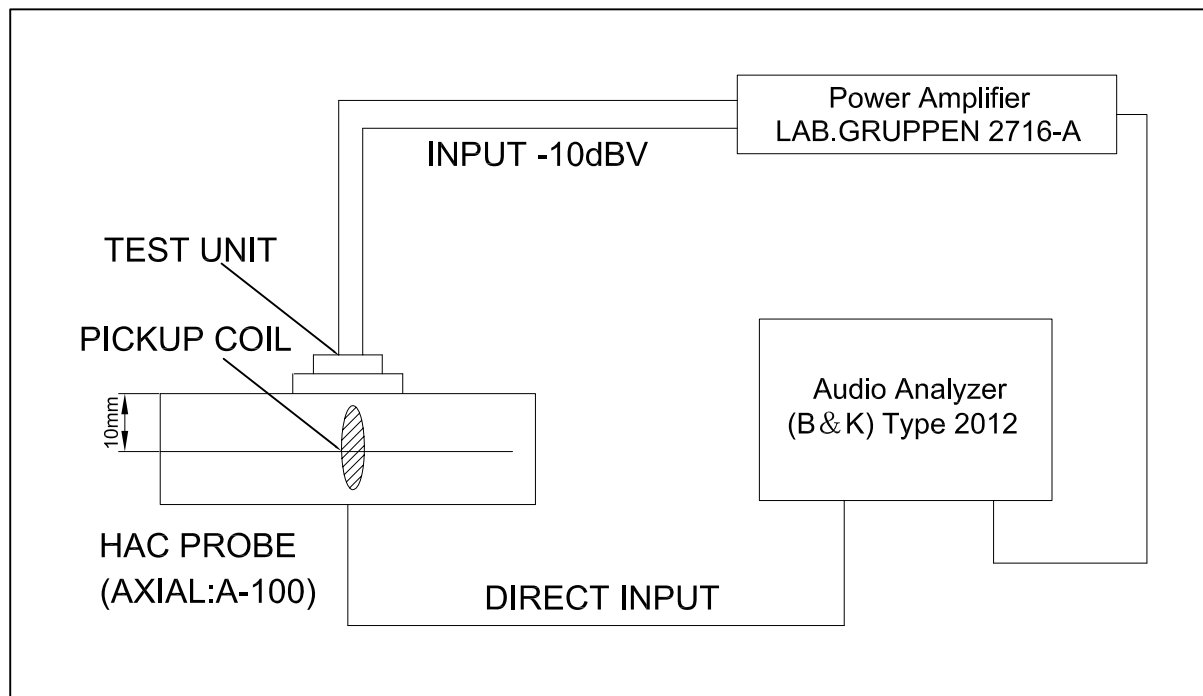


5.2 Response curve

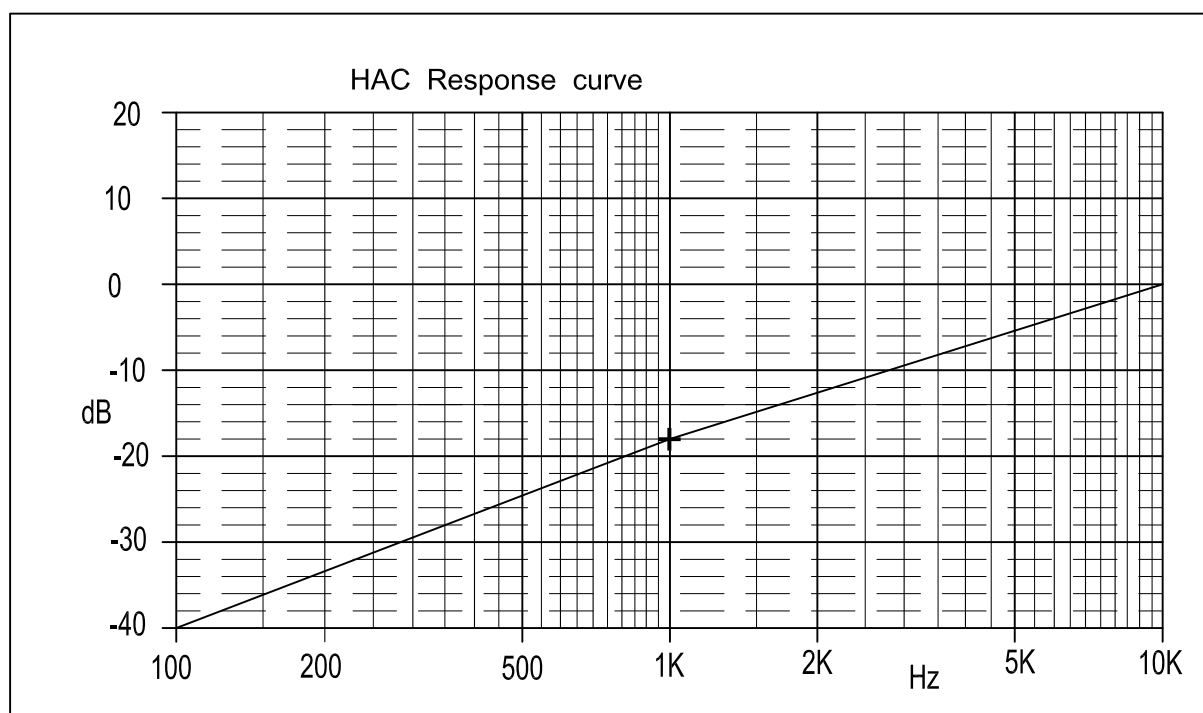


Specification for Receiver		Page	6/10
Model No. : KPDR-G150TH		Revision No.	1.0
		Drawing No.	KF3.002.040

6.1 HAC Measurement Block Diagram

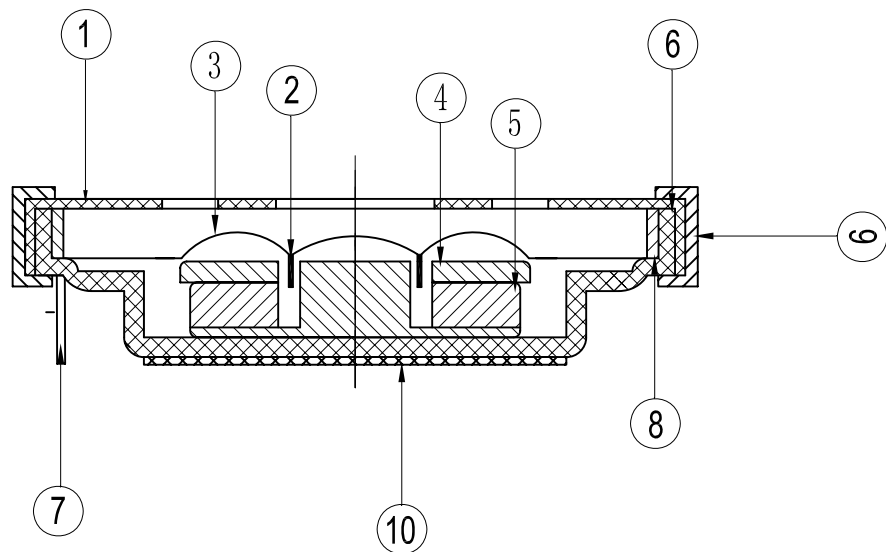


6.2 HAC Response curve



Specification for Receiver		Page	7/10
		Revision No.	1.0
Model No. :	KPDR-G150TH	Drawing No.	KF3.002.040

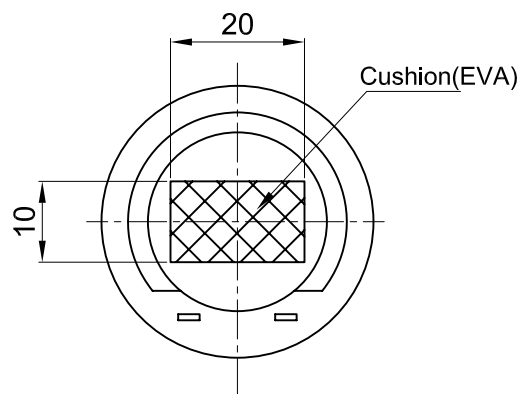
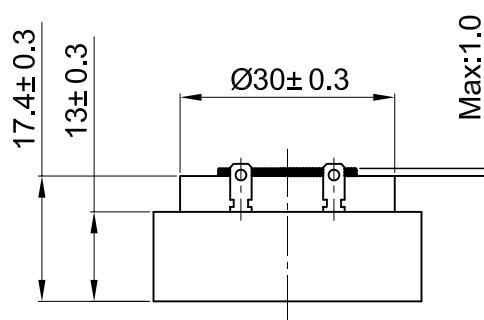
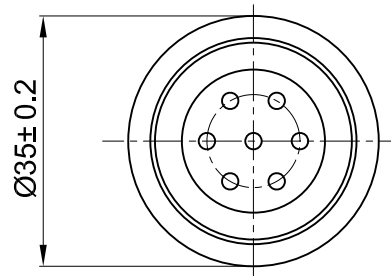
7. Structure



10	Cushion	1	EVA	
9	ring	1	SPC	
8	Voice Coil	1	copper	There is some 4505 yellow glue beside coil of receiver
7	pin	1	copper	
6	Frame	1	SPC	
5	Magnet	1	Y30	
4	Plate	1	SPC	
3	Diaphragm	1	PET	
2	Voice Coil	1	Copper	
1	Cap	1	ABS	
No.	Part Name	Q'TY	Material	Remarks

Specification for Receiver	Page	8/10
	Revision No.	1.0
Model No. : KPDR-G150TH	Drawing No.	KF3.002.040

8. Dimensions



FIRST ANGLE PROJECTION



UNIT : mm
Tolerance : ± 0.2

Specification for Receiver	Page	9/10
Model No. : KPDR-G150TH	Revision No.	1.0
	Drawing No.	KF3.002.040

9. Packing

Each minimum package unit of products shall be in a carton box and it shall be clearly marked with Part Number, quantity and outgoing inspection number.

There shall be no mechanical damage on products during transportation and/or in storage.

Specification for Receiver		Page	10/10
Model No. : KPDR-G150TH		Revision No.	1.0
		Drawing No.	KF3.002.040

10. Revision

Rev. No.	DATE	PAGE	DESCRIPTION	SIGN
1.0	2006.05.29		Primary	