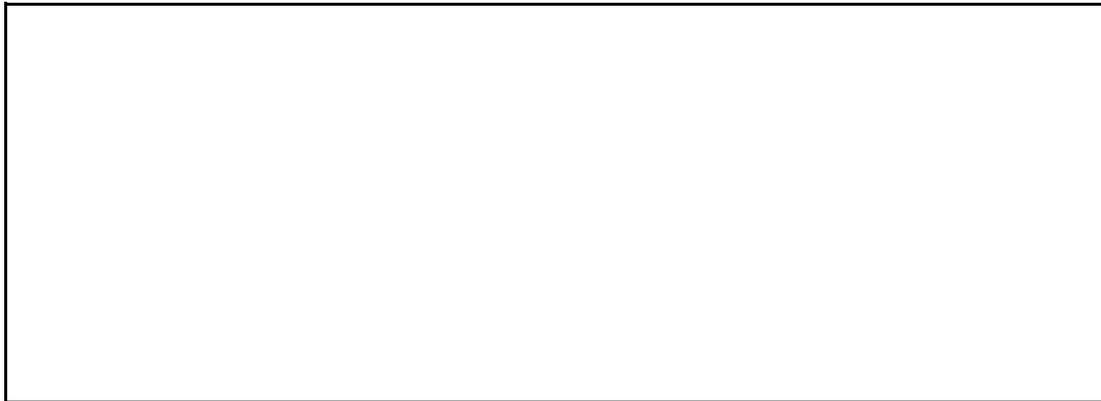


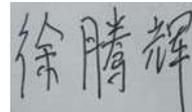
SPECIFICATION

受 控

Customer : QUARTZ
Applied To :
Product Name : Receiver
Model Name : KPDR-152BH
Drawing No. : KF3.002.058.01



Signature of KEPO

Approved by	Checkde by	Issued by	Date
			



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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 : 31 mm

2.2 Height : 11 mm

2.3 Weight : 15 g

2.4 Operating Temperature range:

-20 ~+65 °C without loss of function

2.5 Store Temperature range:

-40 ~+68 °C without loss of function

3. Electrical and Acoustic Characteristics.

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

No	Items	Specification
1	Impedance	150 Ω ± 15% (1Vrms at 1KHz)
2	Sound Pressure Level	96 dB ± 5dB (1kHz/60mV with IEC 318 coupler)
3	Frequency Range	300 ~3.4KHz
4	Input Power	Rated 0.02 W / Max. 0.05 W
5	Buss and Rattle	Should not be audible buzzes,rattles when the 1.73V sine wave signal swept at frequency range.

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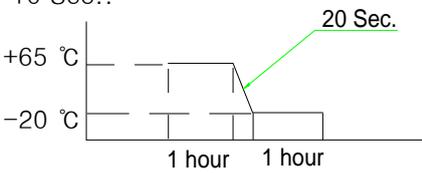
Model No. : KPDR-152BH

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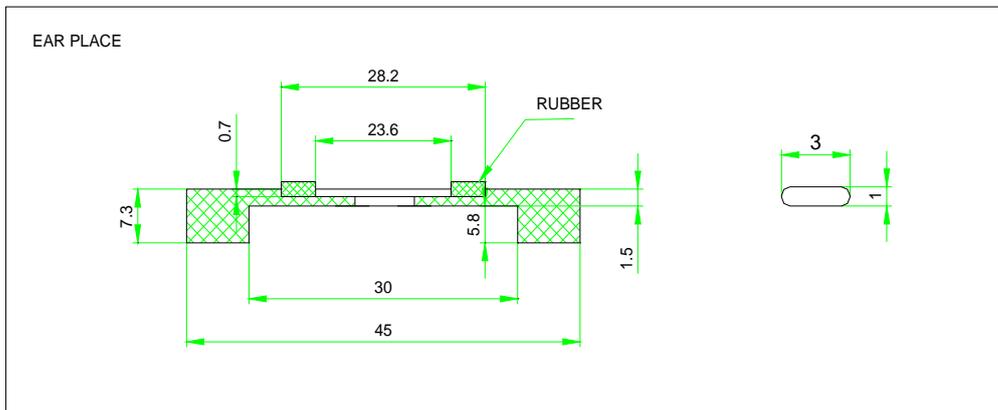
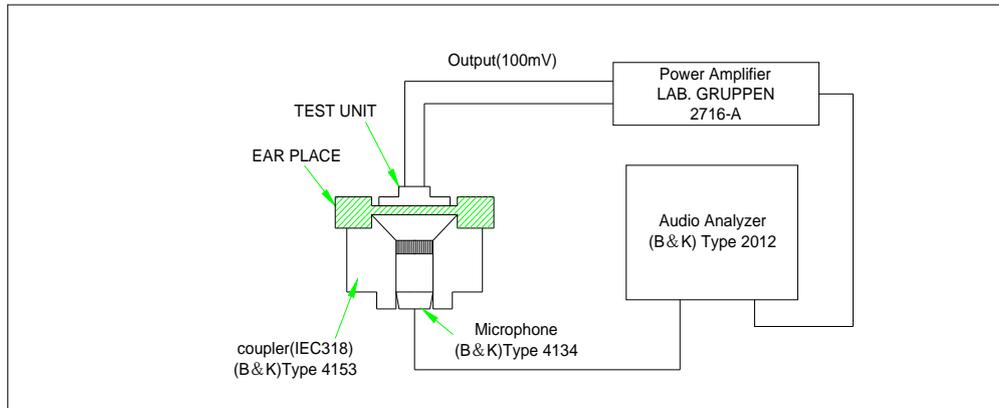
4. Reliability Test

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).

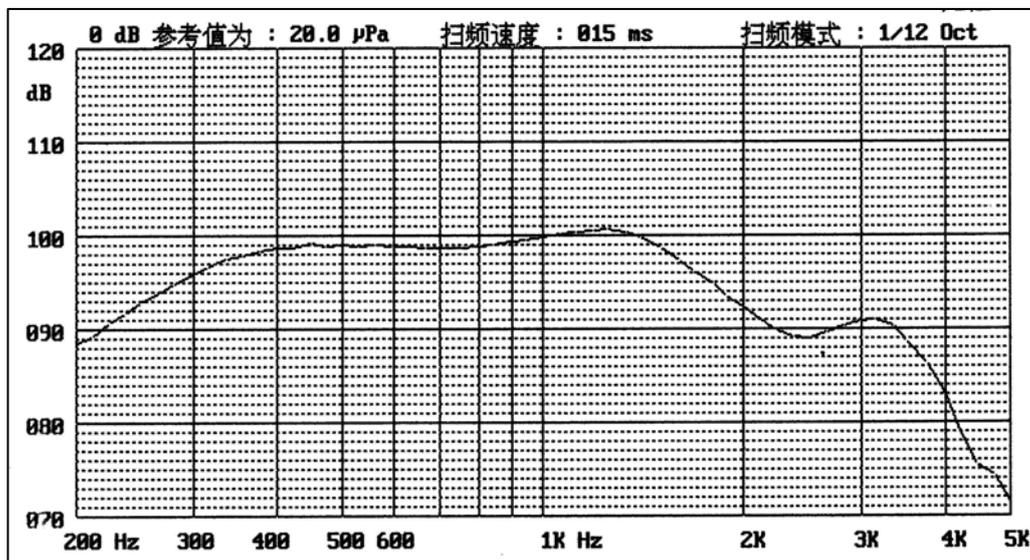
No	Items	Specification
1	High Temperature Test	After being placed in a chamber with $+68 \pm 3 \text{ }^\circ\text{C}$ for 96 hours and then being placed in natural condition for 1 hour, speaker shall be measured.
2	Low Temperature Test	After being placed in a chamber with $-40 \pm 3 \text{ }^\circ\text{C}$ 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 $+65 \text{ }^\circ\text{C}$ for 1 hour, then speaker shall be placed in a chamber at $-20 \text{ }^\circ\text{C}$ for 1 hour(1 cycle is the below diagram). After 4 above cycles, speaker shall be measured after being placed in natural condition for 10 Sec..</p>  <p>The diagram shows a temperature profile for a thermal shock test cycle. The vertical axis represents temperature in degrees Celsius, with markers at $+65 \text{ }^\circ\text{C}$ and $-20 \text{ }^\circ\text{C}$. The horizontal axis represents time. The profile consists of three segments: a horizontal line at $+65 \text{ }^\circ\text{C}$ for a duration of 1 hour, a diagonal line representing a temperature drop to $-20 \text{ }^\circ\text{C}$, a horizontal line at $-20 \text{ }^\circ\text{C}$ for a duration of 1 hour, and a final diagonal line representing a temperature rise back to $+65 \text{ }^\circ\text{C}$, which is labeled as 20 Sec.</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 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 0.02W(1.73Vrms.) 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 Ω

5. Measurement Block Diagram & Response curve

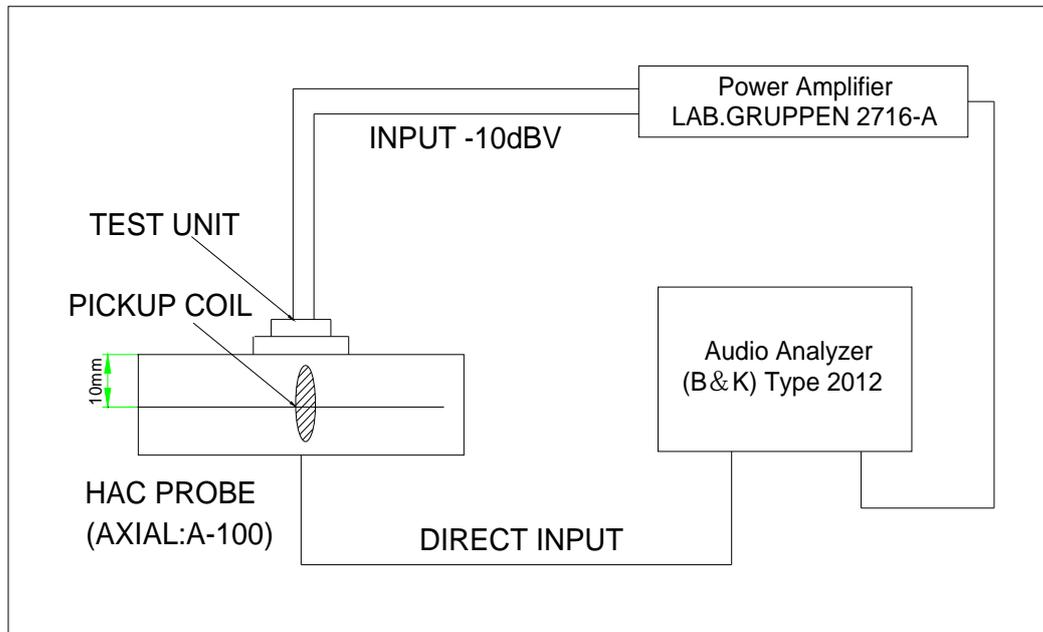
5.1 Measurement Block Diagram



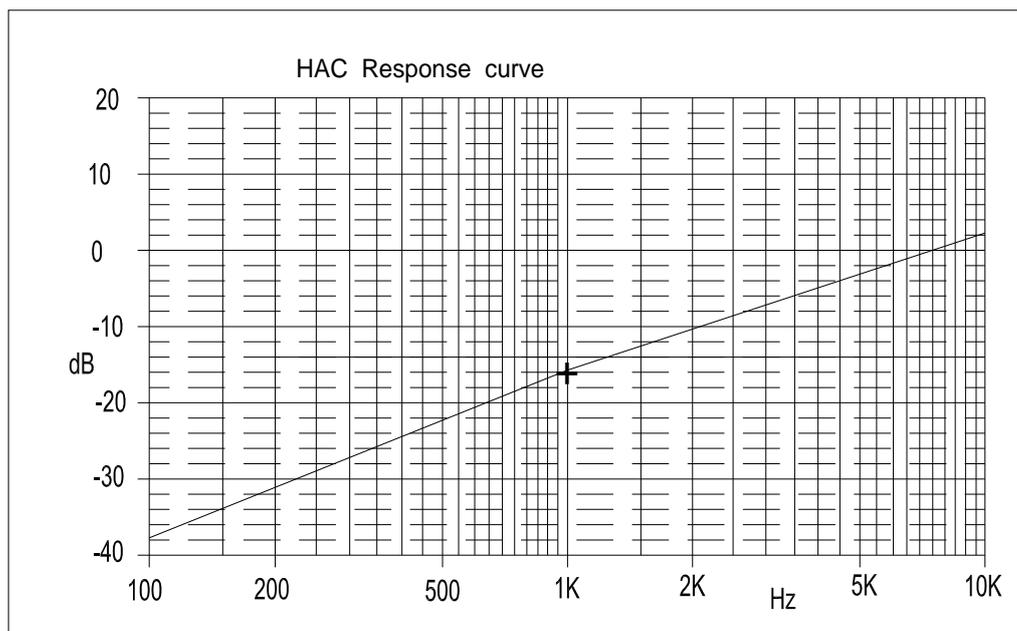
5.2 Response curve



6.1 HAC Measurement Block Diagram



6.2 HAC Response curve



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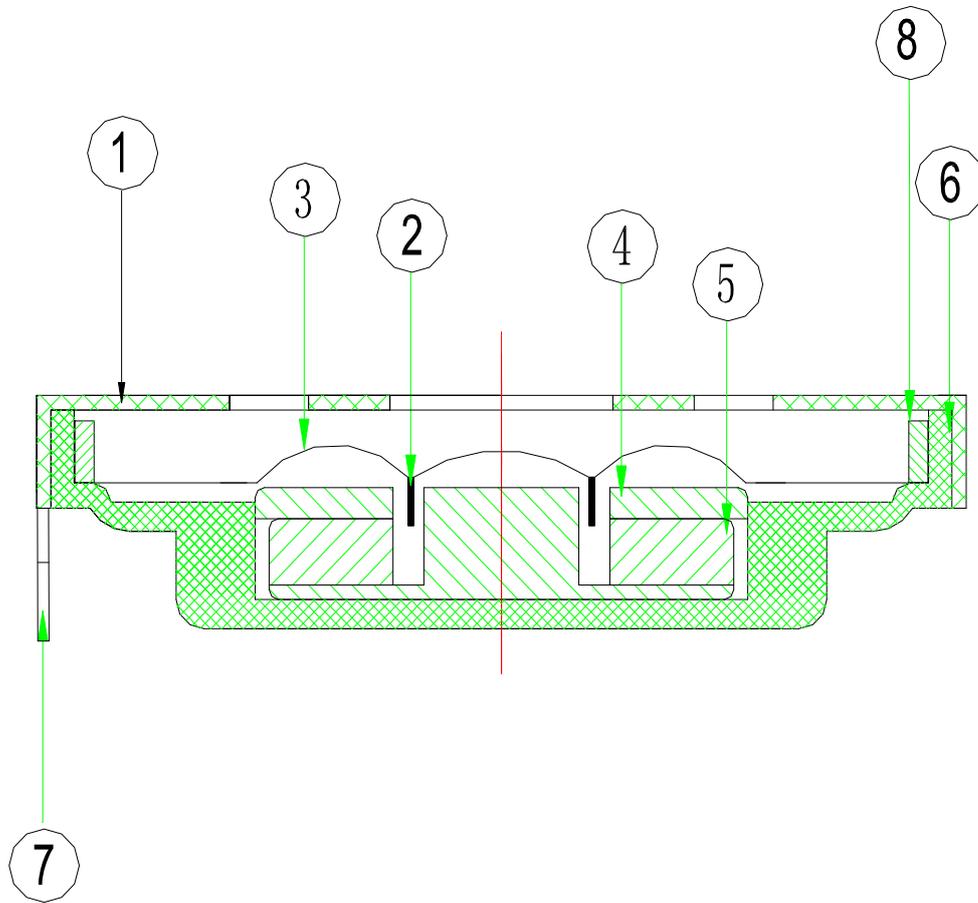
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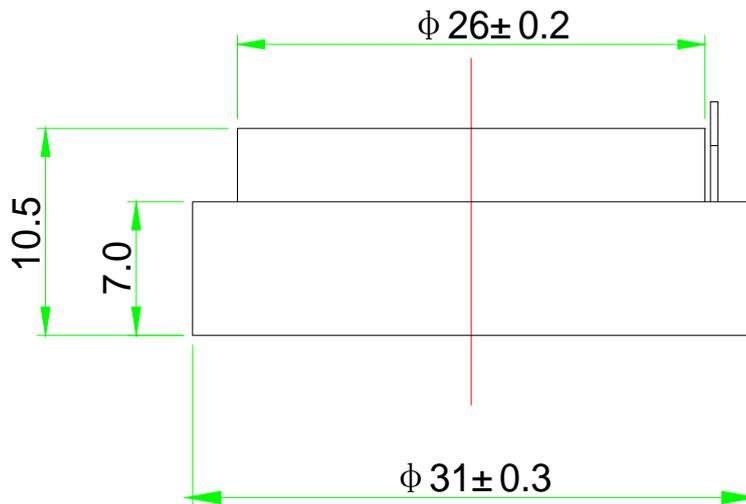
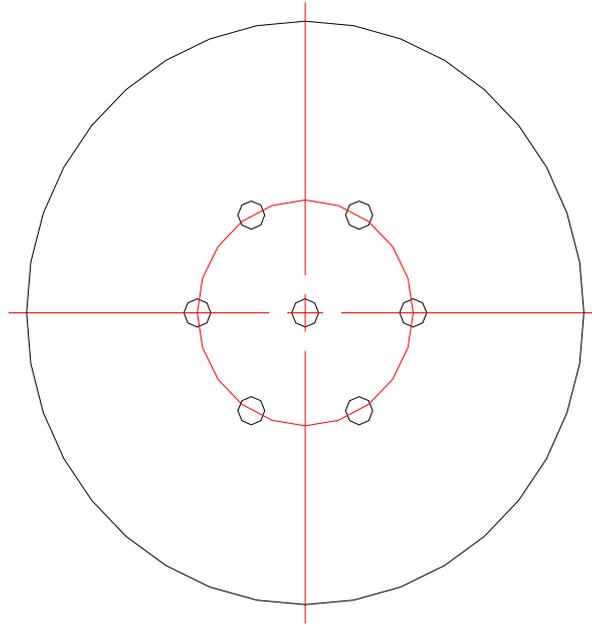
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7. Dimensions

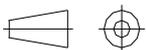


8	Hac	1	Copper	
7	Pin	1	Copper	
6	Frame	1	ABS	
5	Magnet	1	Y30	
4	Plate	1	SPCC	
3	Diaphragm	1	PET	
2	VoiceCoil	1	Copper	
1	Cap	1	ABS	
No.	Part Name	Q'ty	Material	Remarks

8. Dimensions



FIRST ANGLE PROJECTION



UNIT : mm

Tolerance : ± 0.2

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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.

