SPECIFICATION

Customer:

QUARTZ-1

Applied To:

Product Name: Receiver

Model Name: KPDR-157BH

Drawing No. : KF3.002.345

Signature of KEPO

Approved by	Checked 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 : Ø 20mm
 2.2 Height : 5.2mm
 2.3 Weight : 2gr.

2.4 Operating Temperature range:

-25~+65 ℃ without loss of function

2.5 Store Temperature range:

-25~+65 ℃ without loss of function

3. Electrical and Acoustic Characteristics.

Test condition : 20 ± 2 °C, $60\% \sim 70\%$ RH, $860 \sim 1060$ mbar

	Items	Specification	
1	Impedance	150 Ω ± 20%(at 1Vrms,1kHz)	
2	Sound Pressure Level	92dB ± 2dB(1kHz/100mV with IEC 318 coupler)	
3	Frequency Range	300Hz~3.4KHz	
4	Input Power	Rated 30mW / Max. 2.5W	
5	Buzz and Rattle	Should not be audible buzzes,rattles when the 30mw sine wave signal swept at frequency range.	

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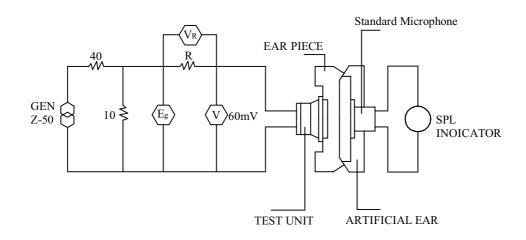
4. Reliability Test

After test(1~7item), the speaker S.P.L . difference shall be within $\pm 2dB$, and the appearance not exist any change to be harmful to normal operation(e.g. cracks,rusts,damages and especially distortion).

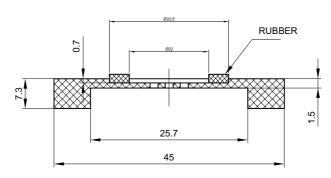
	Item	Specification	
1	High Temperature Test	After being placed in a chamber with +65±3 ℃ for 96 hours and then being placed in natural condition for 1 hour, speaker shall be measured.	
2	Low Temperature Test	After being placed in a chamber with -25±3 ℃ for 96 hours and then being placed in natural condition for 1 hour, speaker shall be measured.	
3	Humidity Test	After being placed in a chamber with 90%R.H. at +40±2 °C for 96 hours and then being placed in natural condition for 1 hour, speaker shall be measured.	
4	Thermal Shock Test	After being placed in a chamber at +65 °C for 2 hour, then speaker shall be placed in a chamber at -25 °C for 2 hour(1 cycle is the below diagram). After 2 above cycles, speaker shall be measured after being placed in natural condition for 1 hour. 20 Sec. +65 °C -25 °C 1 hour 1 hour	
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 2 hours each axes, speaker shall be measured.	
6	Drop Test	Drop a unit contained in normal box into a board 5mm. (3 Place each 1 time)form a height of 1.5m and then a unit must have no abnormality	
7	Load test	The receiver after being applied loading white noise with input power (30mw) for 24 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	

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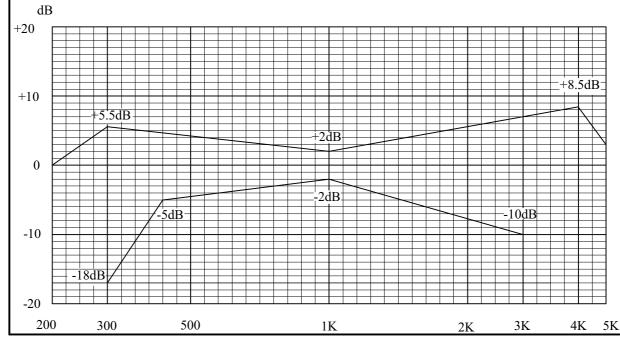
5. Measurement Block Diagram & Response curve



EAR PLACE

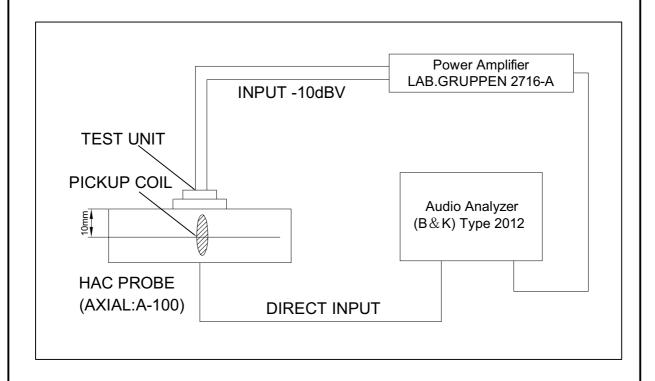




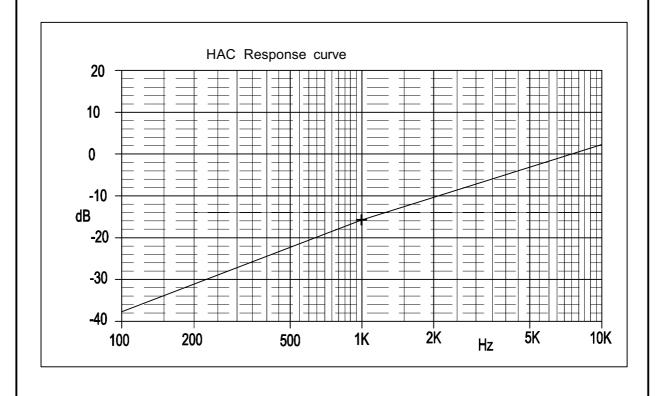


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6.1 HAC Measurement Block Diagram

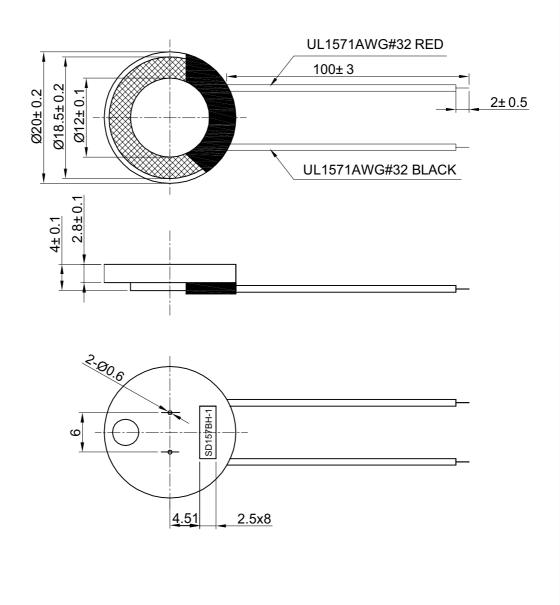


6.2 HAC Response curve



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8. Dimensions



FIRST ANGLE PROJECTION



UNIT : mm
Tolerance : ±2

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9. Packing

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

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

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10. Revision								
Rev. No.	DATE	PAGE	DESCRIP	ΓΙΟΝ		ВОМ		
1.0	2008.03.03		Primar	у				