

---

# SPECIFICATION FOR APPROVAL

Product	DYNAMIC RECEIVER
Part No.	SD152BH
Customer Approval	

Approved By	Checked By	Made By



A & B COMPONENTS

[HTTP://WWW.SPEAKER-TW.COM](http://www.speaker-tw.com)

# 1. SPECIFICATION

SD152BH

ITEMS.		SPECIFICATIONS
01	Type	Dynamic 31mm receiver unit
02	Sensitivity (S.P.L)	92dB $\pm$ 3 dB at 1kHz 60mV with IEC 318 coupler
03	Impedance.	150 Ohm $\pm$ 20% at 1KHz
04	Magnet Field Intensity.	Axial – dB , Radial –dB at 1KHz
05	Nominal Input Power	30 mW
06	Max. Input Power.	Must be normal at a White noise , 50mW for 1 minute.
07	Total Harmonics Distortion	Max 5 % at 1K Hz.
08	Operation temperature	-30°C to +70°C
09	Storage temperature	-40°C to +85°C
10	Weight.	2.0g $\pm$ 0.3g

## 2. MEASURING METHOD

### 2-1. Test Condition

#### STANDARD

Temperature : 15 ~ 35°C

Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

#### JUDGEMENT

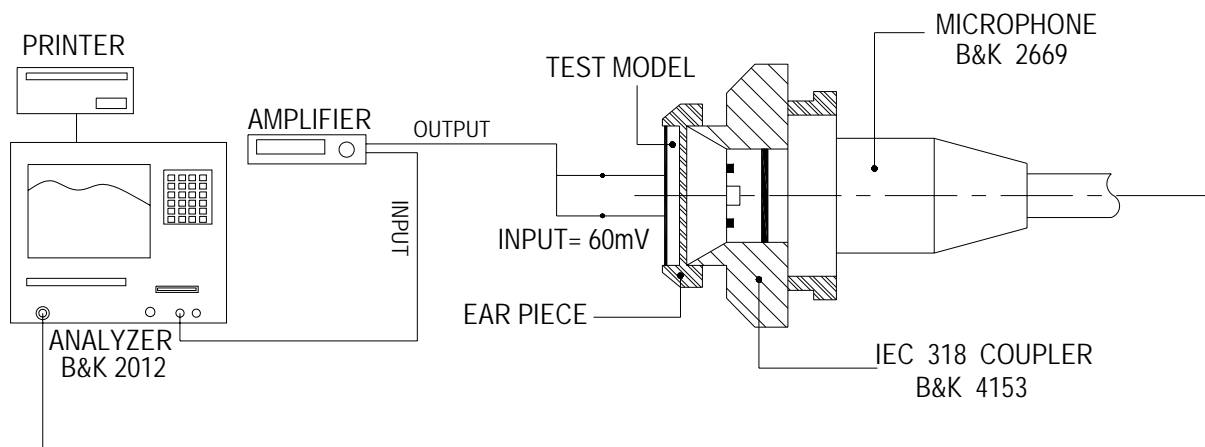
Temperature : 20 $\pm$ 3°C

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

## 2-2. Standard Test Fixture

Input signal : 60mV



## 2.3 2Frequency Response Curve

SD152BH

X:1.0000kHz Y:93.90dB ZA:Live Curve SSR Fund.



Mode: Receiver

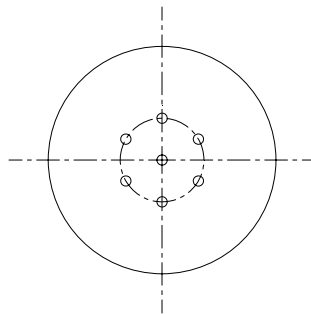
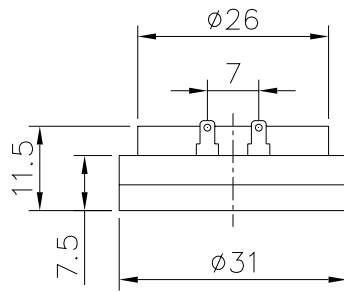
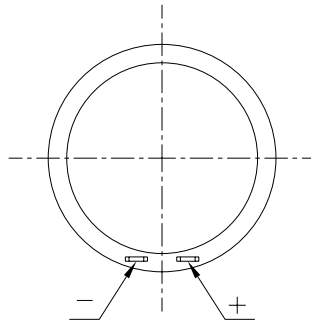


REV NO.

REVISION NOTE

APPROVAL

DATE



TITLE: <i>DYNAMIC RECEIVER</i>		DRAWN: <i>Richard</i> 01/11/2005	SCALE: 1:1	SHEET: 1 of 1
PART NO. <i>SD152BH</i>	<i>1</i>	DESIGNED: <i>R &amp; D DEP.</i>	UNITS: <i>mm</i>	
DWG NO. <i>DTR-1086</i>		CHECKED:	TOLERANCE $\pm 0.2$	
	REV	APPROVAL:	UNLESS OTHERWISE SPECIFIED:	
		MATERIAL: <i>ABS</i>	ONE PLACE DECIMAL $\pm$ ***	
			TWO PLACE DECIMAL $\pm$ ***	
			THREE PLACE DECIMAL $\pm$ ***	

*A & B Components*

## 4. RELIABILITY TESTS

ITEMS.		SPECIFICATIONS
01	High temp. Test	Keep 96 hours at $+85^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check
02	Low temp. Test	Keep 96 hours at $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check
03	Humidity test	Keep 96 hours at $+40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ relative humidity 90% and leave 3 hours in normal temperature and then checked.
04	Temp./humidity cycle	<p>The part shall be subjected 5 cycles. One cycle shall be 12 hours and consist of;</p> <p style="text-align: center;"> <math>90 \sim 95 \% \text{ RH}</math>  <math>65^{\circ}\text{C}</math>  <math>25^{\circ}\text{C}</math>  <math>0.5\text{hr}</math>   <math>6\text{hrs}</math>   <math>0.5\text{hr}</math>   <math>5\text{hrs}</math> </p>
05	Thermal Cycle Test.	Low temperature: $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ , temperature: $+85^{\circ}\text{C} \pm 3^{\circ}\text{C}$ , cycle: 1 hour/cycle each, and then keep 5 cycles in a room.
06	Vibration	10~200~10Hz Sin-Wave Sweep 15min. 5G(Constant) X,Y, Z 3 direction. 2 hours each, total 6 hours.
07	Fix Drop test	Fix on Jig. then drop from 152cm height to the concrete floor X,Y, Z 6 direction. 5 times each, total 30 times.
08	Free Drop test	Free drop from 100cm height to the concrete floor X,y, z 6 direction. 1 times each, total 6 times.
09	Load test	Rated power white noise is applied for 96 hours
10	Max Power test	Max Power 1 min on – 2 min off 10 cycles.