

**APPROVAL SHEET
FOR
CELLULAR PORTABLE
PHONE SPEAKER**

CUSTOMER: _____

P/N: SD-150

CUSTOMER P/N: _____

APPROVED	CHECKED	DESIGNED

CUSTOMER COMMENT:

SIGNATURE: _____

DATE: _____

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SPECIFICATION		MODEL NO.	SD-150	P2/7
ISSUED DATE	2009-09-16			

UNLEADED PRODUCT

1. SCOPE UNLEADED PRODUCT

Dynamic Telephone Receiver Unit with frontside adhesive ring

2. MECHANICAL LAYOUT & DIMENSIONS

Shown in Fig.7

3. GENERAL REQUIREMENTS

3.1 OPERATING TEMPERATURE RANGE: -20°C ~ +60°C

3.2 STANDARD TEST CONDITIONS:

- Temperature: 17~25°C
- Relative Humidity: 45% ~80%(RH)
- Air Pressure: 860~1060 hPa

3.3 JUDGEMENT CONDITIONS:

- Temperature: 20±2°C
- Relative Humidity: 60% ~70%(RH)
- Air Pressure: 860~1060 hPa

4. RECEIVER MODE ELECTROACOUSTIC CHARACTERISTIC

4.1 SOUND PRESSURE LEVEL

98±2dB SPL @1KHz (0dB SPL=20µPa)

Input voltage: 60mV (Sine wave) measured with IEC318 coupler.Shown in Fig.3

4.2 IMPEDANCE: 150±20% Ω(@ 1KHz 1V)

4.3 MEASURING DIAGRAM: Shown in Fig.1

4.4 FREQUENCY RESPONSE MASK & TYPICAL FREQUENCY RESPONSE CURVE:

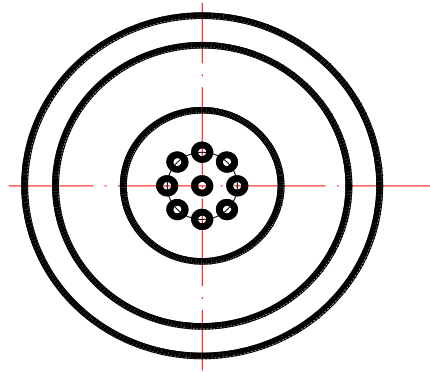
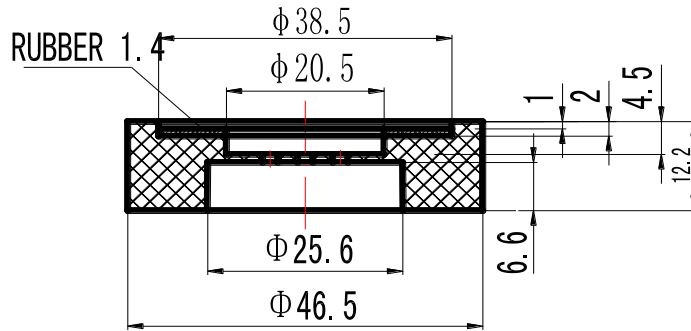
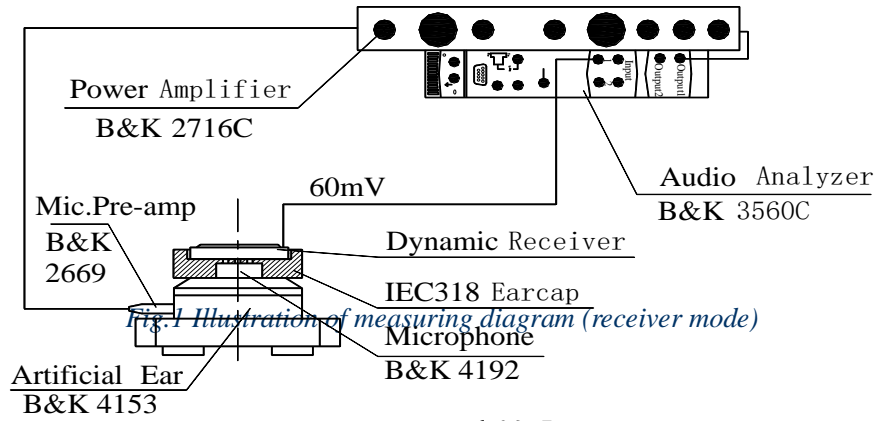
Shown in Fig.2.

4.5 RATED POWER: 10mW. **MAX POWER:** 20mW (White Noise)

4.6 THD :less than 5% at300-3400HZ

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FREQUENCY MEASURING DIAGRAM (RECEIVER MODE) (Fig.1)



EAR PIECE (Fig.3)

Fig.3 Illustration of ear piece

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■ **FREQUENCY RESPONSE MASK & TYPICAL FREQUENCY RESPONSE CURVE (RECEIVER MODE) (Fig.2)**

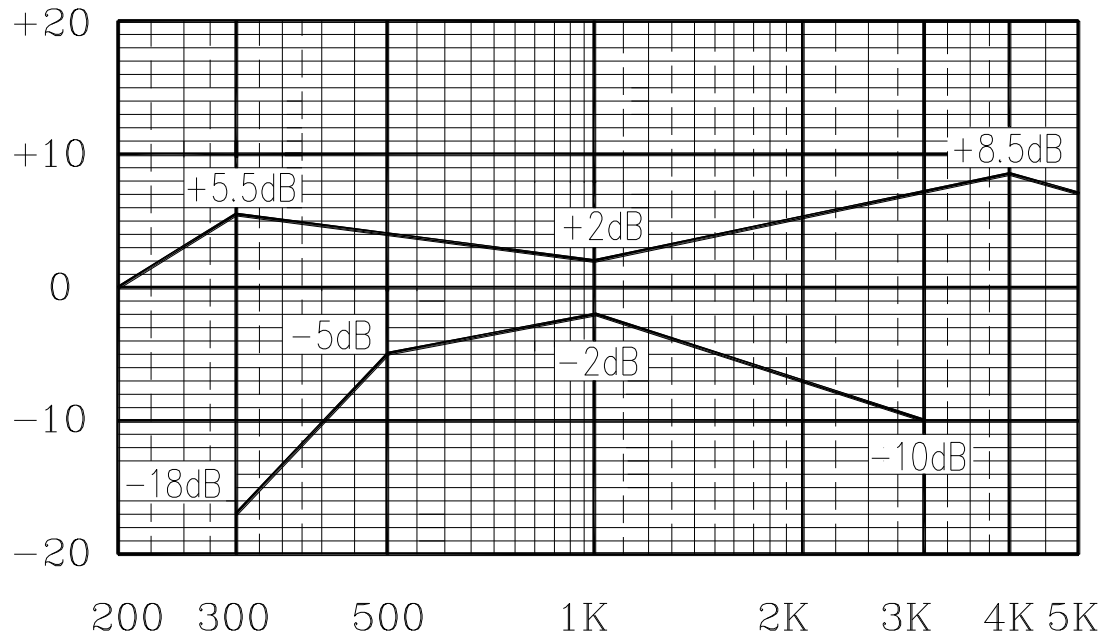


Fig.2 Frequency response mask & typical frequency response curve (receiver mode)

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6. RELIABILITY TESTS
 The sound pressure as specified shall neither deviate more than $\pm 3\text{dB}$ from the initial value, nor any significant damage after any of following testing.

6.1 HIGH TEMPERATURE TEST
 High temperature: **+60±3°C**
 Duration: **96 hours**

6.2 LOW TEMPERATURE TEST
 Low temperature : **-25±3°C**
 Duration: **96 hours**

6.3 TEMPERATURE CYCLE TEST (See in Fig.6)

Temperature: **-25°C** **+60°C**
 Duration: **30minutes** **30 minutes**
 Temperature gradient: **1~3°C/min.**
 Cycle: **25**

6.4 HUMIDITY TEST

Temperature: **+40±2°C**
 Relative humidity: **90~95%**
 Duration: **96 hours**

6.5 DROP TEST

Dorp a unit unpacked onto a board of 20mm thick
 Height: **1 m**
 Cycle: **10 Time**

6.6 LOAD TEST

White noise for **96 hours @ 0.01 W** input power.

TEMP. CYCLE TEST (Fig.6)

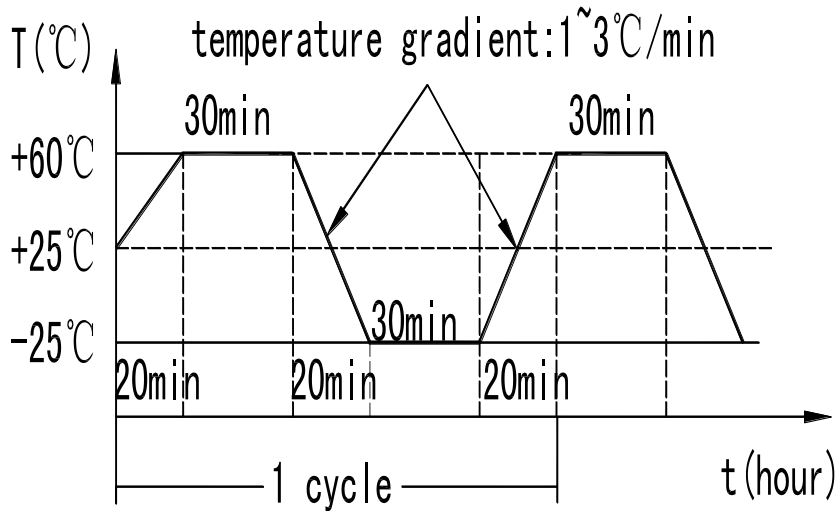


Fig.6 Illustration of temp. cycle te

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7. DIMENSIONS (Fig.7) Unless otherwise specified, tolerance: ±0.2 (unit: mm)						

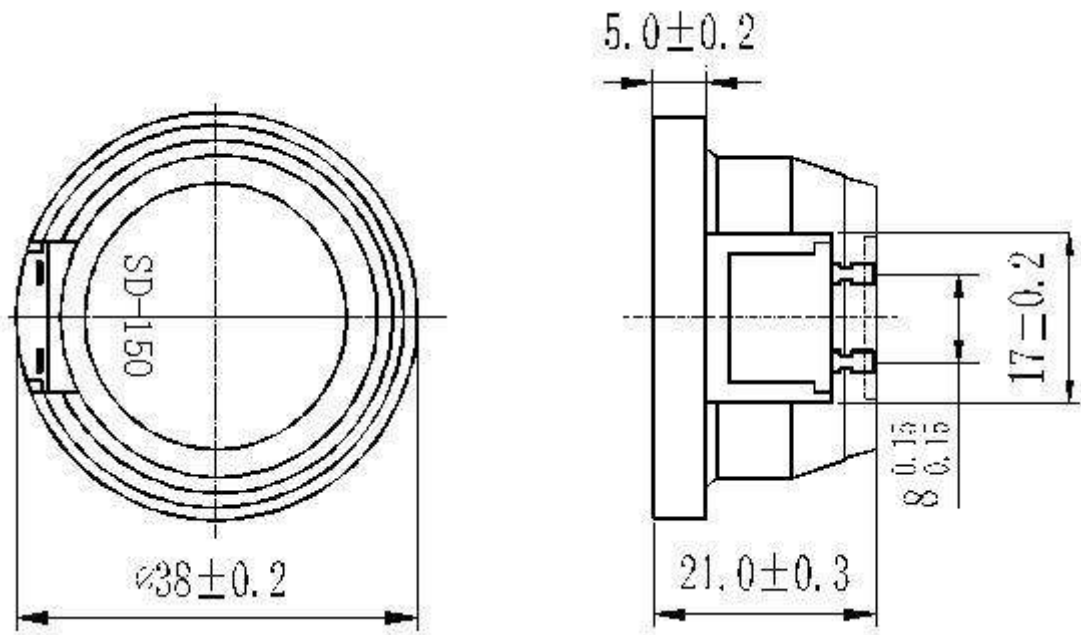


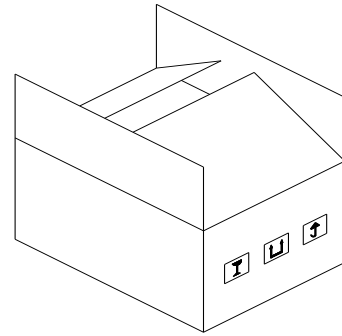
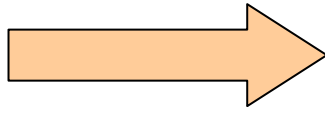
Fig.7 Outer dimension

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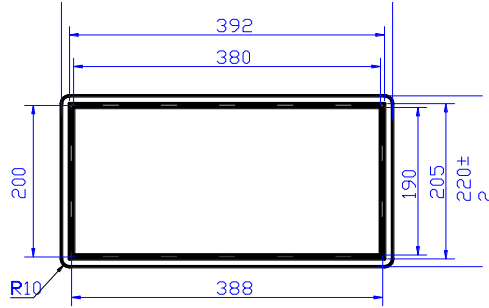
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8. PACKING DETAILS (Fig.8)

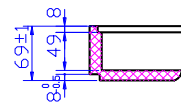
DYNAMIC RECEIVER
 TYPE: SD-150
 QUANTITY: 500PCS
 GROSS WT: 17.5KG
 NET WT: 19KG
 VOLUME:42×24×33 CM



DRAWING OF PS (POLYSTYRENE) TRAY (BOTTOM)



DRAWING OF PS (POLYSTYRENE) COVER (TOP)



(unit: mm)

【NOTE】

- 1、 100 pcs of receiver in each tray;
- 2、 5 trays in one paper box;
- 3、 Absorbers are applied as shown.

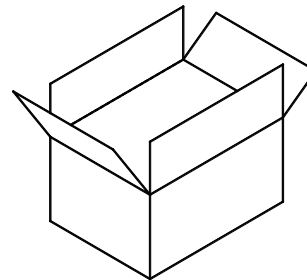
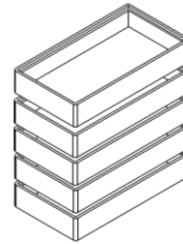


Fig.9 Illustration of packaging & marking

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