

# RC DYNAMIC RECEIVER UNIT

**Acoustic Product Specification** 

**Product Number: RC-1106S** 



# Release | Revision: C/2018

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This document contains the technical specifications for the dynamic receiver unit for mobile telephones.

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#### **Receiver Electroacoustic Characteristics**

#### **Sound Pressure Level**

115±3dB SPL @1.0KHz Sine Wave 179mV with IEC318

Measuring condition: 1mW (Sine wave) measured with baffler shown in Fig.1

#### **Frequency Response Curve**

As shown in Figure 2

#### **Input Power (Nominal and Maximum)**

Rated Noise Power 10mW

**Short Term Max Power:** 20mW must be normal at a white noise for one minute

#### **Operation Test**

Must be free audible noise (buzzes and rattles) (200 ~ 3.4KHz frequency range, input level up to 0.56Vrms)

# **General Specifications**

#### **Operating Temperature Range**

-40°C ~ +80°C

#### **Storage Temperature Range**

-40°C ~ +85°C

#### **Standard Test Conditions**

Temperature 17°C~25°C

Relative Humidity 45%~80%(RH)

### **AC** Impedance

 $32\pm15\%\Omega$  (@1KHz 1V) without baffler.

#### **Dimension**

11.0 x 6.0mm

#### **IP Level**

IP50



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# **Reliability Tests**

The sound pressure as specified will neither deviate more than ±3dB from the initial value, nor have any significant damage after any of following testing.

#### **High Temperature Test**

**High Temperature** +85±2°C

**Duration** 96 hours

#### **Low Temperature Test**

Low Temperature -40±2°C

**Duration** 96 hours

#### **Heat Shock Test**

High Temperature +85±2°C

Low Temperature -40±2°C

Changeover Time < 30 seconds

**Duration** 1 hour

Cycle 100

#### **Humidity Test**

Temperature + 40±2°C

**Relative Humidity** 90%~95%

**Duration** 96 hours

#### **Temperature Cycle Test**

Temperature -40°C +85°C

**Duration** 45 minutes 45 minutes

Temperature gradient 1~3°C/min

Cycle 25

#### **Drop Test**

Mounted with dummy set mass 100 g

Height 1.5 m

Cycle 6 (1 each plain) onto the concrete board

#### **Load Test**

**Speaker mode:** White noise (EIA filter) for 96 hours @10mW input power.



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# Measuring Method (Speaker Mode)

#### **Standard Test Condition**

Temperature 15 ~ 35°C

Relative humidity 45% ~ 85%

Atmospheric pressure 860mbar to 1060mbar

#### **Standard Test Fixture**

Input Power 1mW

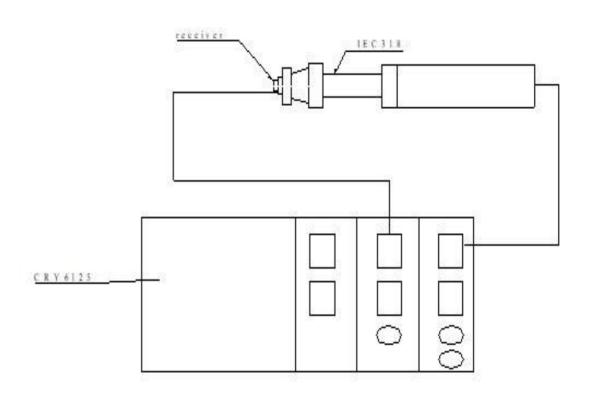
Zero Level -dB

Mode TSR

Potentiometer Range 50dB

Sweep Time 0.2sec

# **Standard Test Condition of Speaker (Fig. 1)**





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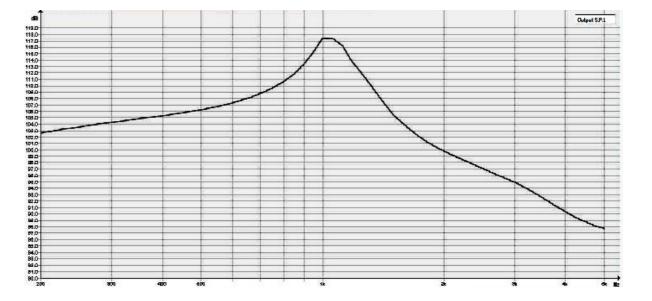
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# Frequency Response Curve (Fig. 2)





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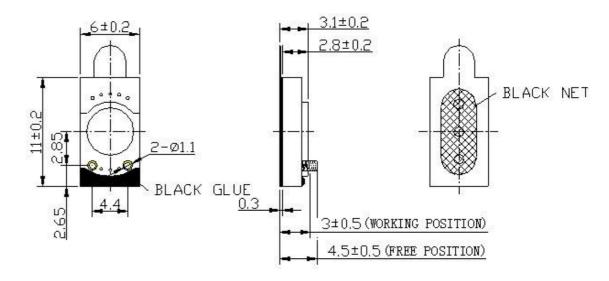
Dimensions

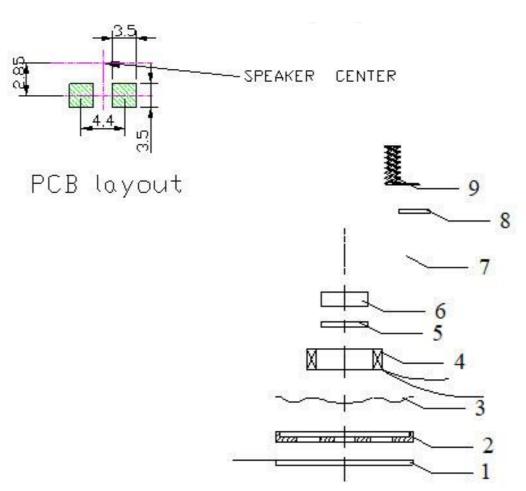
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#### **Dimensions**

Tolerance: ±0.5 (unit: mm)





No.	Part Name	Material	Quantity
1	Сар	SUS 304	1
2	Diagram	PEI	1
3	Magnet	Ф5.3 × Ф2.8 × 0.9-N38	1
4	Plate	SPCC	1
5	Voice Coil	Ф2.0-0.025	1
6	Frame	PBT	1
7	PCB	FR-4	1
8	Gasket	Adhesive	1
9	Spring	Stainless	2



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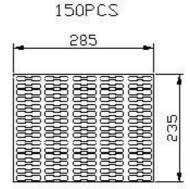
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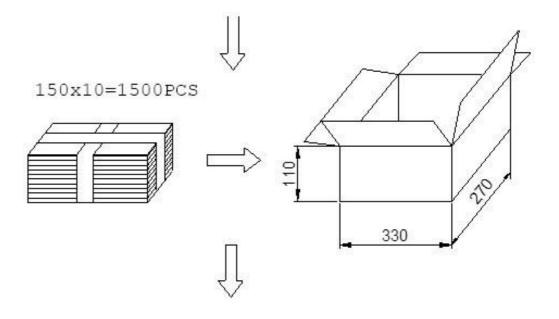
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1500x5=7500PCS

