Dynamic Speaker Electroacoustic Characteristics

Sound Pressure Level
92±3dB SPL @ 2KHz 1.0V(Sine wave) 0.1m measured with baffler shown in Fig.1. (1CC BOX)

Measuring Diagram
Shown in Fig.1

Typical Frequency Response Curve
Shown in Fig. 2

Resonance Frequency
850±20%Hz @ 1Vrms. (In 1CC BOX)

Input Power (Nominal and Maximum)
Rated Noise Power: 0.7W (In 1CC Box)
Short Term Max Power: 1.0W (In 1CC Box)

Operation Test
Must be free audible noise (buzzes and rattles)

200 ~ 5000Hz frequency range, input level up to 2.0Vrms (In 1CC BOX)

Distortion
Less than 10% at 1KHz 1V

General Specifications

Operating Temperature Range
-25℃ ~ +65℃

Storage Temperature Range
-40℃ ~ +85℃

AC Impedance
6Ω±15% (@2KHz 1Vrms)

Dimension
16 x 9 x 4.3 mm

IP Rating
No rating
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TEST CLIMATIC CONDITIONS

Standard Test Condition

- Temperature 17 ~ 25°C
- Relative humidity 45% ~ 80%
- Atmospheric pressure 860~1060 hPa
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 (See in Fig. 3)**
- High Temperature: +85±2°C
- Low Temperature: -40±2°C
- Changeover Time: <20 seconds
- Duration: 1 hour (high), 1 hour (low)
- Cycle: 10

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

**Temperature Cycle Test (See in Fig. 4)**
- Temperature: -40°C ~ +85°C
- Duration: 45 minutes 45 minutes
- Temperature gradient: 1~3°C/min
- Cycle: 10

**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 @ 0.7W (1CC BOX) (2.37Vrms)
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No. | Part Name   | Material  | Quantity |
--- |-------------|-----------|----------|
1   | Yoke        | Iron      | 1        |
2   | Magnet      | Nd Fe B   | 1        |
3   | Plate       | Iron      | 1        |
4   | Spring Terminal | SUS  | 2        |
5   | Frame       | PPA       | 1        |
6   | Voice Coil  | Copper    | 1        |
7   | Diaphragm   | PEEK      | 1        |
8   | Cap         | PPA       | 1        |
9   | PAD         | PE        | 1        |
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**Box size:** 31X24X19cm

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100pcs per tray

100X20 = 2000pcs

2000pcs per box

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