

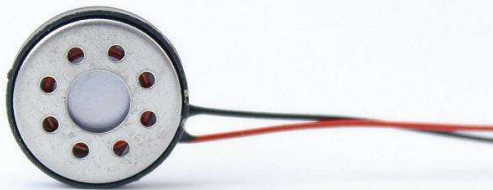


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SP DYNAMIC SPEAKER UNIT

Acoustic Product Specification

Product Number: SP-1303L



Release | Revision: B/2018

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Measuring Method (Speaker

Dynamic Speaker Electroacoustic C

Sound Pressure Level

87±3dB SPL @1.0, 1.2,1.5 and 2.0KHz in average
Measuring Condition: 0.1W (Sine wave) 10cm r
in Fig.1.

Frequency Response Curve

As shown in Figure 2

Response Frequency

1100±20%Hz @ 1V. (Without Baffler)

Input Power (Nominal and Maximum)

Rated Noise Power 0.5W

Short Term Max Power: 0.8W must be normal a
(1W, F0 ~ 20KHz) for one minute

Operation Test

Must be free audible noise (buzzes and rattles)

(300 ~ 8KHz frequency range, input level up to

Distortion

Less than 10% @1KHz, 0.1M, 0.1W frequency ra

General Specifications

Operating Temperature Range

-20°C~+60°C

Storage Temperature Range

-30°C~+70°C

Standard Test Conditions

Temperature 17°C~25°C

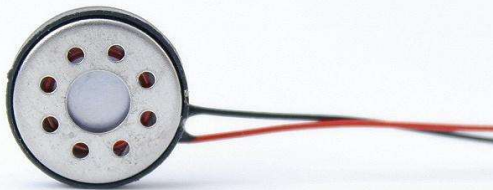


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Reliability Tests

The sound pressure as specified will neither deviate more than the specified value, nor have any significant damage after any of following tests.

High Temperature Test

High Temperature $+60\pm 2^{\circ}\text{C}$

Duration 96 hours

Low Temperature Test

Low Temperature $-20\pm 2^{\circ}\text{C}$

Duration 96 hours

Heat Shock Test

High Temperature $+60\pm 2^{\circ}\text{C}$

Low Temperature $-20\pm 2^{\circ}\text{C}$

Changeover Time <30 seconds

Duration 1 hour

Cycle 100

Humidity Test

Temperature $+40\pm 2^{\circ}\text{C}$

Relative Humidity 90%~95%

Duration 96 hours

Temperature Cycle Test

Temperature -20°C $+60^{\circ}\text{C}$

Duration 45 minutes 45 minutes

Temperature gradient $1\sim 3^{\circ}\text{C}/\text{min}$

Cycle 25

Drop Test

Mounted with dummy set mass 100 g

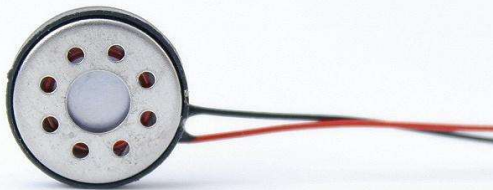


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Standard Test Condition

Temperature 15 ~ 35°C

Relative humidity 45% ~ 85%

Atmospheric pressure 860mbar to 1060

Standard Test Fixture

Input Power 0.1W

Zero Level -dB

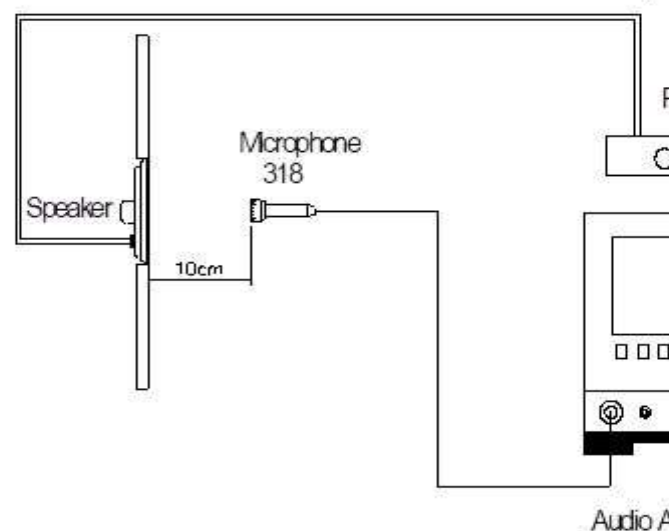
Mode TSR

Potentiometer Range 50dB

Sweep Time 0.5sec

Standard Test Condition of Spea

Standard test condition of sp



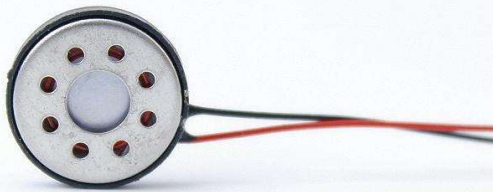


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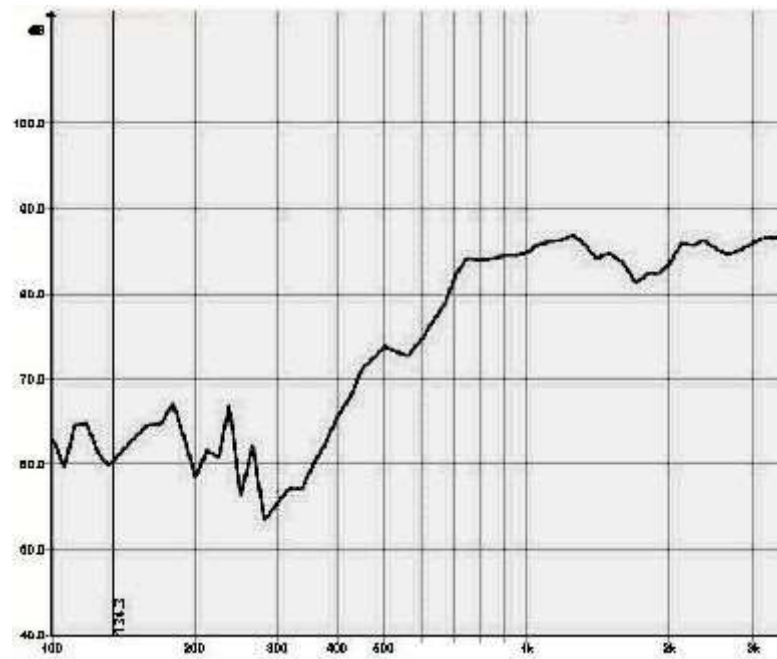
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Measuring Method (Speaker

Frequency Response Curve



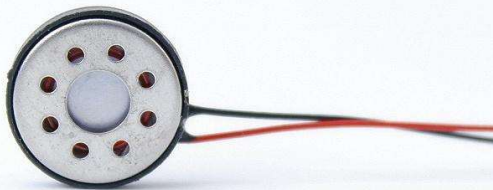


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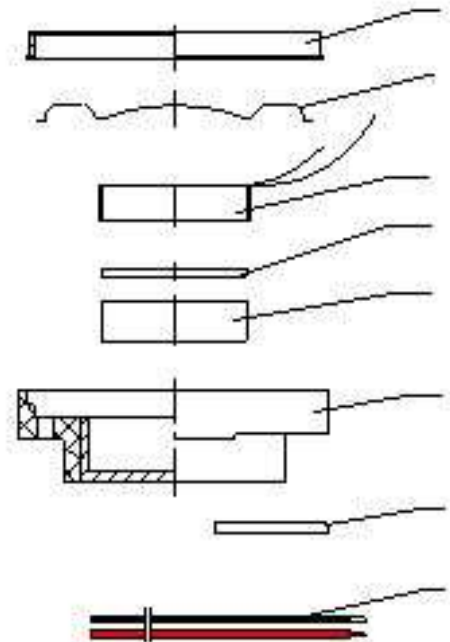
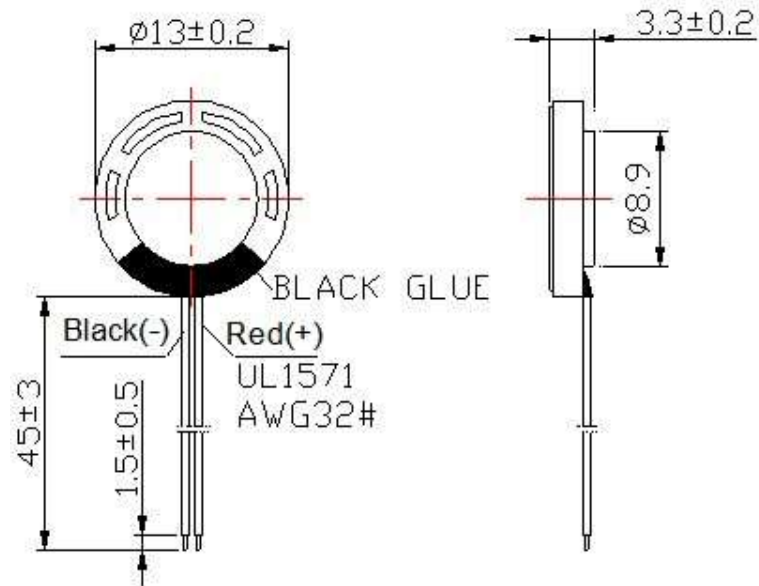
Reliability Tests

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Measuring Method (Speaker

Dimensions

Tolerance: ± 0.5 (unit: mm)



No.	Part Name	Material
1	Wire	UL1571 AWG32#
2	PCB	FR-4

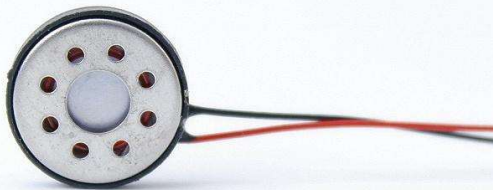


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Packing

