Acoustic Product Specification

Product Number: SP-2618W



Release | Revision: B/2018

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Standard Test Condition of Speakers

Dynamic Speaker Electroacoustic Characteristics

Sound Pressure Level

91±3dB SPL @0.8, 1.0, 1.2 and 1.5KHz in Average Measuring Condition: 0.8W (Sine wave) 10cm measured with baffler shown in Fig.1

Frequency Response Curve

As shown in Figure 2

Response Frequency

650±20%Hz @ 1V (Without Baffler)

Input Power (Nominal and Maximum)

Rated Noise Power 0.8W Short Term Max Power: 1.0W must be normal at a white noise (F0 ~20KHz) for one minute

Operation Test

Must be free audible noise (buzzes and rattles) (300 ~ 6KHz frequency range, input level up to 2.53Vrms)

Distortion

Less than 10% @1KHz, 10cm, 0.8W

Polarity

Diaphragm shall be move forward when applies a positive DC. Current to the "+", the red wire is the "+".

General Specifications

Operating Temperature Range

-30°C~+70°C

Operating Temperature Range

-40°C ~ +85°C

Standard Test Conditions

Temperature 17°C ~ 25°C Relative Humidity 45% ~ 80% (RH)

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AC Impedance

 $8\pm15\%\Omega$ (@2KHz 1V without baffler.

Dimension

26.0 x 18.0 x H4.8mm WIRE 90mm (UL 1571/AWG30#) Connector 51021-0200Molex

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 $+40\pm2^{\circ}$ 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

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Load Test

Speaker mode: White noise (EIA filter) for 96 hours @ 0.8W 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 0.8W

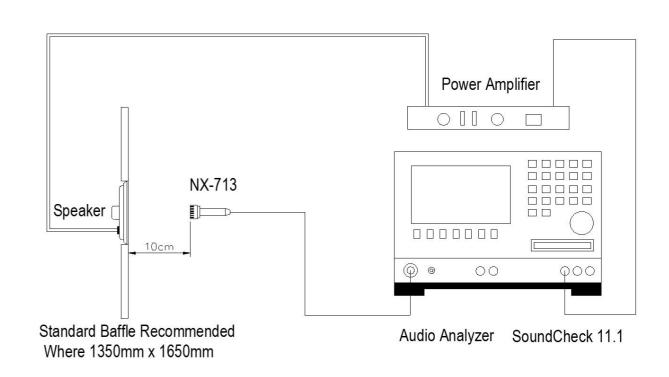
Zero Level -dB

Mode TSR

Potentiometer Range 50dB

Sweep Time 0.5sec

Standard Test Condition of Speaker (Fig. 1)



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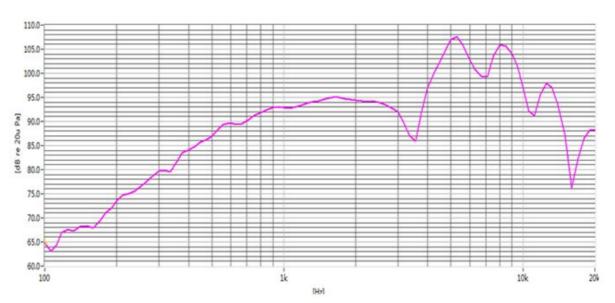
Page 2 **Reliability Tests**

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Standard Test Condition of Speakers

Frequency Response Curve (Fig. 2)

0.1W/10cm, in free air



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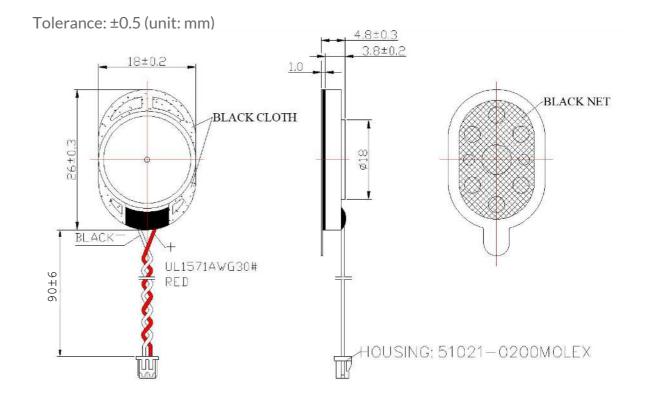
General Specifications

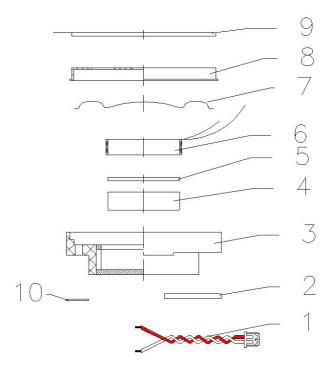
Page 2 **Reliability Tests**

Page 3 Measuring Method (Speaker Mode)

Standard Test Condition of Speakers

Dimensions





No.	Part Name	Material	Quantity
1	Wire (90mm) Connector	UL 1571/AWG30# 51021-0200Molex	2 1
2	PCB	FR-4	1
3	Frame	PBT+Nd Fe B+SPCC	1
4	Magnet	Nd Fe B	1
5	Plate	SPCC	1

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6	Voice Coil	Cu	1
7	Membrane	PEN	1
8	Сар	SUS	1
9	Gasket	Black Net	1
10	Screen	Black Cloth	1



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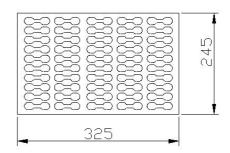
Page 2 **Reliability Tests**

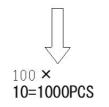
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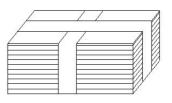
Standard Test Condition of Speakers

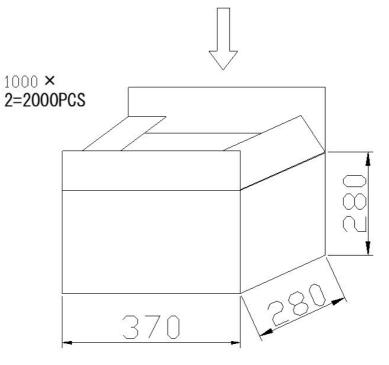
Packing

100PCS









Remarks

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Page 6 Packing 100 pcs per box

10 units per box

Total: 2000 pcs per box

Total Weight: 11kg

