NB SPEAKER

Acoustic Product Specification

Product Number: SPM-2035NU



Release | Revision: A/2019

CONTENTS

This document contains the technical specifications for the NB speaker unit.

Page 1 General Specifications

Page 2 Standard Test Conditions Test Conditions

Page 3 Reliability Tests

Page 4 Frequency Response Curve

General Specifications

Voice Coil Impedance

DC: 8±15%Ω

Resonance Frequency

1200±20%Hz@1V

Sound Pressure Level

82±3dB SPL @1.0 Watt, at 100 cm Average @1.2, 1.5, 2.0, 2.5 KHz

Response Range

F0~10 KHz

Power Rating (Normal/ Maximum)

Normal: 2.0 Watt Maximum: 2.5 Watt

Distortion

10% Max. at 1,000 Hz, 1.0 Watt, 0.1 Meter

Abnormal Sound Test

Result must be normal when tested at 4 volts in free air.

Magnet

Materials: NdFeB

Polarity

Diaphragm shall move forward when a positive DC current is applied to the "+" or "Marked" Terminal.

Environmental Protection Regulation

RoHS 2.0

Dimension

39.0x20.0xH8.2mm WIRE 150mm + 3mm Jack

IP Level

None

Page 5 Dimensions

Page 6 Packing

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1

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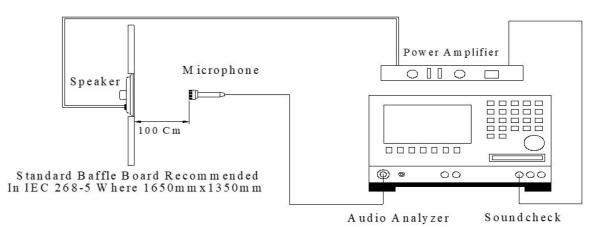
Page 1 General Specifications

Page 2 Standard Test Conditions Test Conditions

Page 3 Reliability Tests

Page 4 Frequency Response Curve

Standard Test Condition



Test Conditions

Standard Test Condition

Temperature 15~ 35°C

Relative humidity 45% ~ 85%

Atmospheric pressure 860~1060 mbar

Standard Test Fixture

Input power: 2.0W(4V)

Zero level: -dB

Mode: TSR

Potentiometer Range: 50dB

Sweep time: 0.5sec

Page 5 Dimensions

Page 6 Packing



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Page 3 Reliability Tests

Page 4 Frequency Response Curve

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 +60±2°C

Duration 96 hours

Low Temperature Test

Low Temperature -20±2°C

Duration 96 hours

Heat Shock Test

High Temperature +60±2°C

Low Temperature -20±2°C

Changeover Time < 30 seconds

 $\textbf{Duration}\ 1\ hour$

Cycle 100

Humidity Test

Temperature +40±2°C

Relative Humidity 90%~95%

Duration 96 hours

Temperature Cycle Test

Temperature -20°C+60°C

Duration 45 minutes 45 minutes

Temperature gradient 1~3°C/min

Cycle 25

Drop Test

Mounted with dummy set mass In Normal Box

Height 75 cm

Cycle 10 (1 each plain) onto the concrete board

Page 5 Dimensions

Page 6 Packing Load Test

White Noise (EIA Filter) for 96 hours @2.0W input power



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Page 1 **General Specifications**

Page 2 **Standard Test Conditions** Test Conditions

Page 3 **Reliability Tests**

Page 4 Frequency Response Curve

Test condition: 1.0W/0.5M



Page 5 Dimensions

Page 6 Packing

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4

NB SPEAKER

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Release | Revision: A/2019

CONTENTS

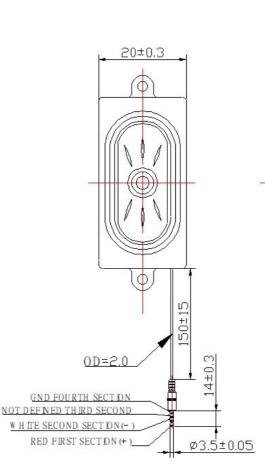
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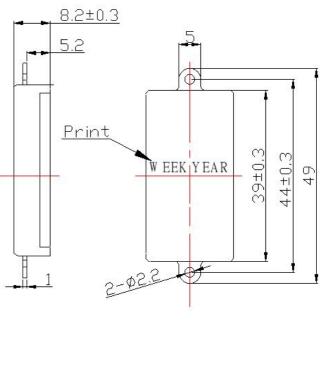
Page 1 General Specifications

Page 2 Standard Test Conditions Test Conditions

Page 3 Reliability Tests

Page 4 Frequency Response Curve Tolerance: ±0.5 (unit: mm)





No.	Part Name	Material	Quantity
1	Diaphragm	Cloth	1
2	Voice Coil	Paper Cu	1
3	Plate	SPCC	1
4	Magnet	NdFeB	1
5	PCB Terminal	FR-4	1
6	Frame	PBT	1

Page 5 Dimensions

Page 6 Packing



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Release | Revision: A/2019

CONTENTS

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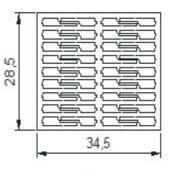
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Page 2 Standard Test Conditions Test Conditions

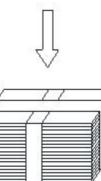
Page 3 Reliability Tests

Page 4 Frequency Response Curve

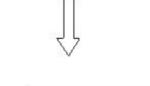
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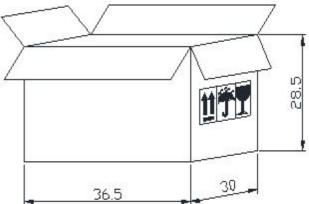


36pcs









Packing Information

Unit: mm

Per Tray: 36 pcs

Per Carton: 15 trays

Total: 540 pcs per carton

Carton Size: 36.5 x 30 x 28.5cm

Page 5 Dimensions

Page 6 Packing

