
SPECIFICATIONS SHEET FOR APPROVAL

NOTEBOOK SPEAKER
P/N: NSI40-P17110

**DESCRIPTION: D40X20mm, H8.4mm Notebook Speaker,
650Hz, 80hm, 2W
RoHS Compliance (Directive 2002/95/EC)**

VERSION: 01

DATE: 26-Oct-17

REVISIONS

VERSION	DESCRIPTION	DATE
01	Released from engineering	26-Oct-17

APPROVED BY :

CUSTOMER NAME :

DATE :

SPECIFICATIONS SHEET

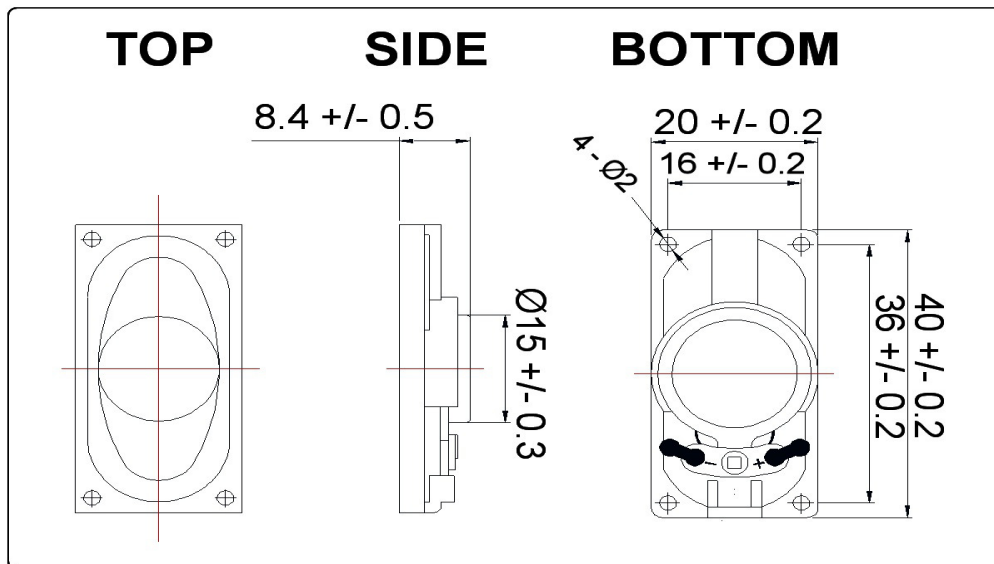
NOTEBOOK SPEAKER
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1. SPECIFICATIONS

PARAMETERS	VALUES	UNITS
*SOUND PRESSURE LEVEL	86 ± 3	dB
RESONANCE FREQUENCY (Fo)	650 ± 20%	Hz
FREQUENCY RANGE	Fo – 6,000	Hz
RATED IMPEDANCE (AT 1K HZ 1.0 Vrms)	8 ± 15%	Ohm
RATED POWER	2.0	W
MAX POWER	3.0	W
MAGNET	Ø11 X 1.5 NdFeB	-
OPERATING TEMPERATURE	-30 to +70	°C
STORAGE TEMPERATURE	-40 to +85	°C
HOUSING	PLASTIC	-
DIAPHRAGM MATERIAL	CLOTH	-
WEIGHT	7	g

*Tested at 0.5m 1W 0.8K , 1K , 1.2K , 1.5KHz average

2. DIMENSIONS (unit in mm)

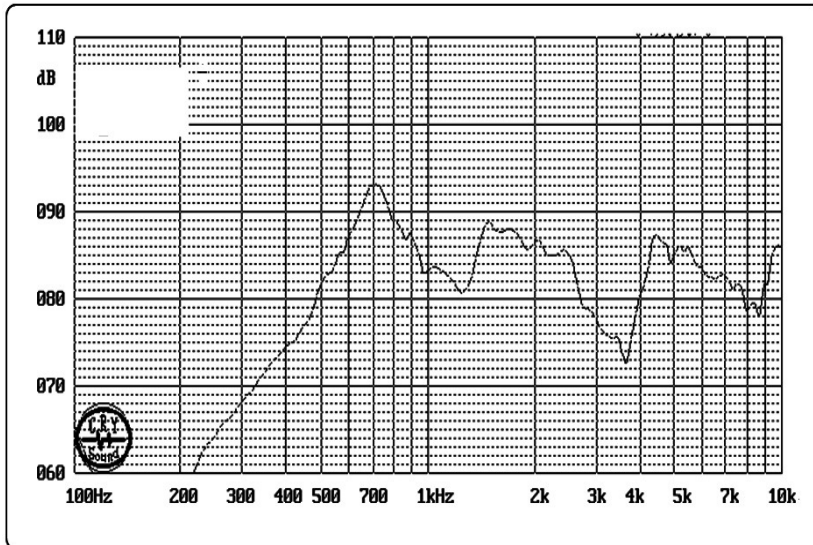


Tolerance: ±0.5mm except specified

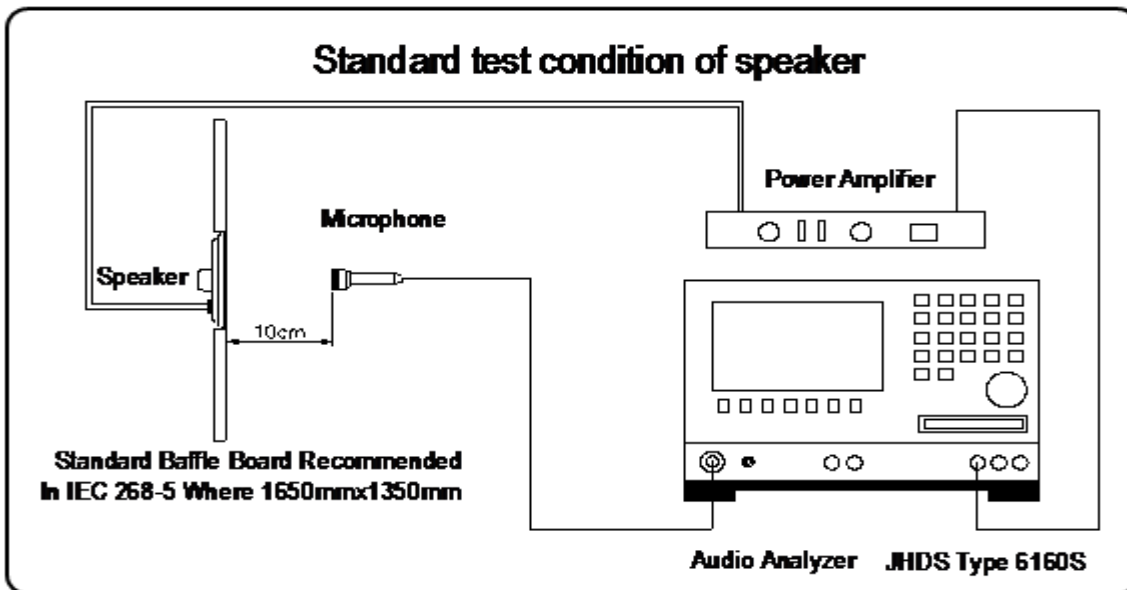
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All specifications subject to change without notice

3. FREQUENCY RESPONSE CURVE



4. MEASURING CONDITION



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5. RELIABILITY TEST

Testing Criteria

After these test , the change of S.P.L shall be within ± 3 dB

1) Load Test

Rated Power White noise is applied for 96 hours

2) Temperature Test

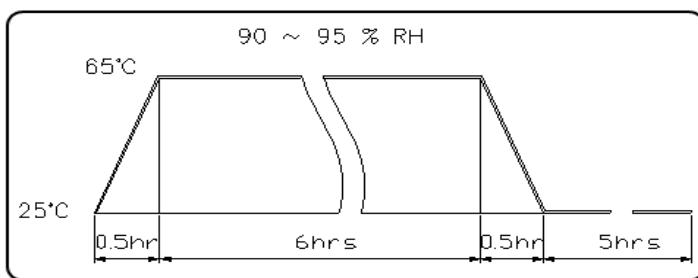
- Keep 96 hours at $+70^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check
- Keep 96 hours at $-30^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check

3) Humidity Test

Keep 96 hours at $+ 40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ relative humidity 92-95% and leave 3 hours in normal temperature and then checked.

4) Thermal Shock Test

The part shall be subjected 5 cycles. One cycle shall be 12 hours and consist of;



5) Drop Test

Free drop from 100cm height to the concrete floor X,Y, Z 6 direction. 1 times each, total 6 times.

6) Vibration Test

10~55~10Hz sin-wave sweep 15min. 5G(constant) X,Y, Z 3 direction. 2 hours each, total 6 hours.

7) Terminal Strength Test

Capable of withstand 1kg load for 30 seconds without resulting in any damage or rejection.

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