

## PRELIMINARY SPECIFICATIONS SHEET

LOUD SPEAKER  
P/N: LSI45-P19044

DESCRIPTION: D45mm, H20mm Loud Speaker, 200Hz, 40hm, 5W

VERSION: 02

DATE: 16-July-19

### REVISIONS

VERSION	DESCRIPTION	DATE
01	Released from engineering	27-May-19
02	Modify the height to 2.6 +/- 0.2mm from 2.8 +/- 0.2mm , Sound pressure level to 101 +/- 3db from 98 +/- 3db	16-July-19

APPROVED BY :

CUSTOMER NAME :

DATE :

## PRELIMINARY SPECIFICATIONS SHEET

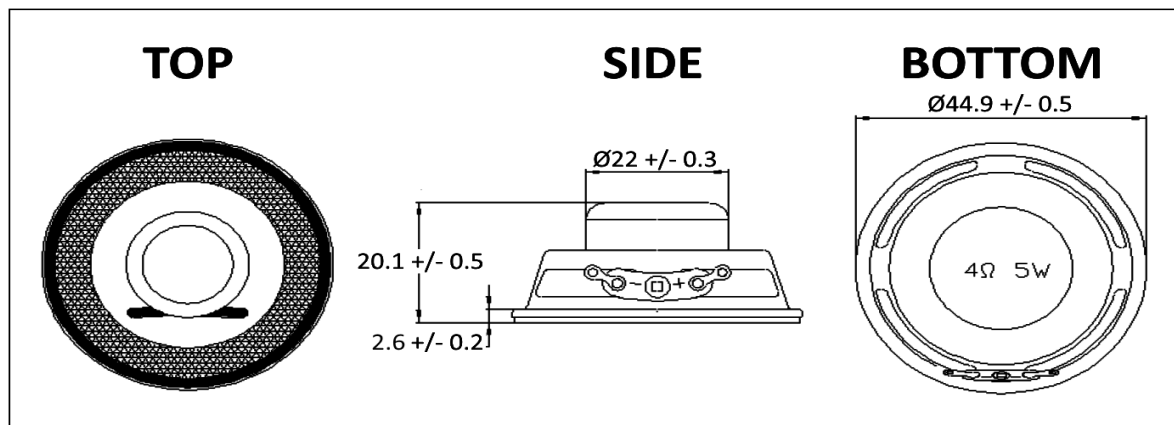
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P/N: LSI45-P19044

### 1. SPECIFICATIONS

PARAMETERS	VALUES	UNITS
*SOUND PRESSURE LEVEL	101 ± 3	dBA
RESONANCE FREQUENCY (Fo)	200 ± 20%	Hz
FREQUENCY RANGE	Fo – 15,000	Hz
RATED IMPEDANCE (At 1KHZ, 1V)	4 ± 15%	Ohm
RATED POWER	5.0	W
MAX POWER	8.0	W
MAGNET	Ø15.5 X 4 (NdFeB)	mm
OPERATING TEMPERATURE	-20 to +60	°C
STORAGE TEMPERATURE	-30 to +60	°C
HOUSING	METAL	-
DIAPHRAGM MATERIAL	PAPER	-

\*Tested at 0.1m 5W,0.6k, 0.8k, 1k, 1.2kHz Average

### 2. DIMENSIONS (unit in mm)



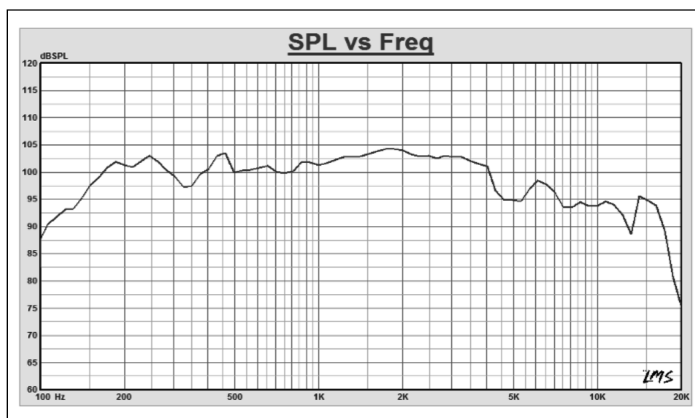
Tolerance: ±0.5mm except specified

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All specifications subject to change without notice

### 3. FREQUENCY RESPONSE CURVE



### 4. RELIABILITY TEST

#### Testing Criteria

All specifications (in page 2) must be satisfied after below tests.

(Recovery: 2 to 4 hrs of recovery under the standard condition after the removal from test chamber.)

#### 1) Load Test

Input power: 5W, white noise 96 hours

#### 2) Temperature Test

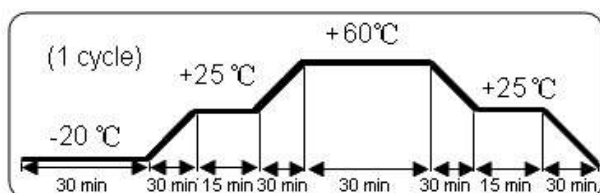
a) Exposure at +60°C for 96 hours then leave 3 hours in normal temperature and test the Specifications.

b) Exposure at -20°C for 96 hours then leave 3 hours in normal temperature and test the Specifications.

#### 3) Humidity Test

Exposure at +40°C and 90%-95% relative humidity for 96 hours and leave 3 hours in normal temperature. Then test the Specifications.

#### 4) Temperature Cycle Test



Exposure to above temperature cycle for 5 times and room temperature for 2 hours.

#### 5) Drop Test

Drop the speakers from a height of 1.5m for 6 times .

#### 6) Vibration Test

Frequency: 10~55~10Hz Oct/min ,Amplitude: 1.5mm Duration: 2 hours in each 3 axes

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