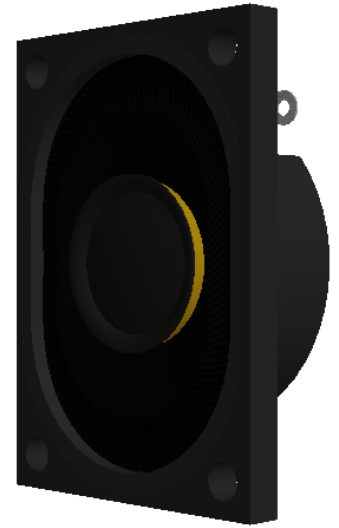




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## AS04008PS-4W-WR-R 40 x 28mm Speaker

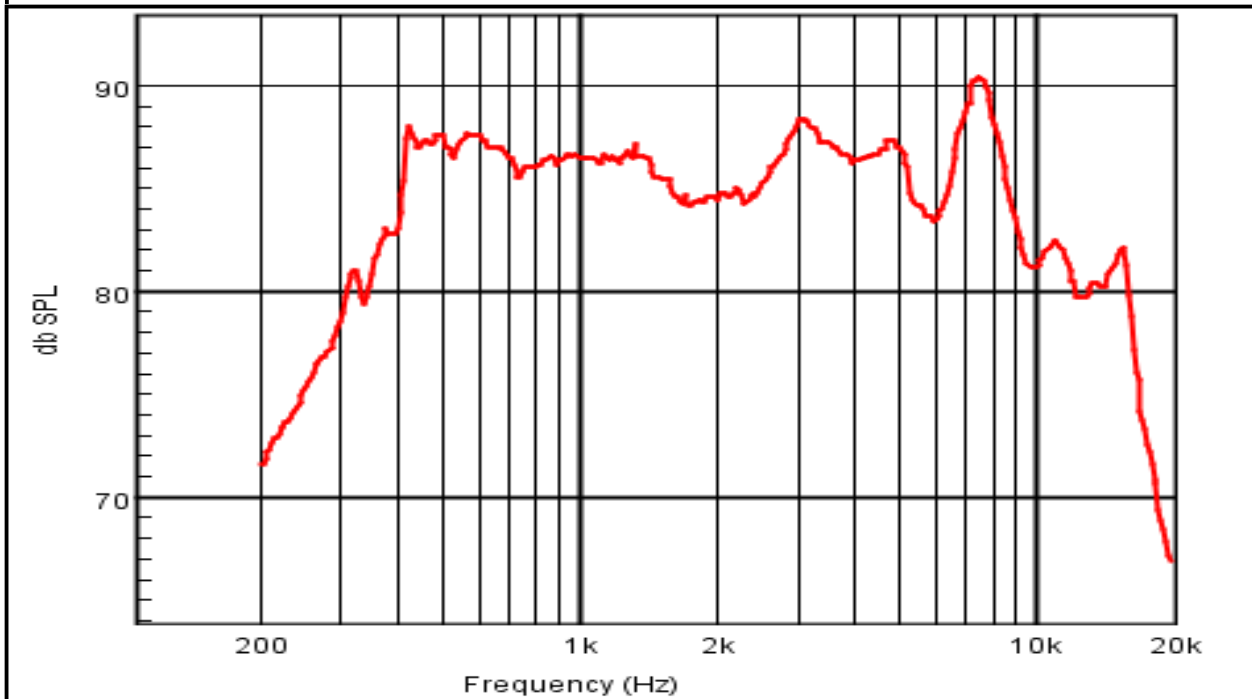


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### Product Overview

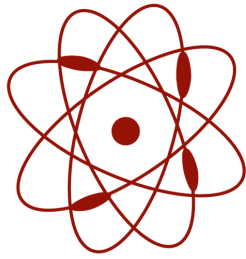
- 40 x 20mm oval speaker with Neodymium magnet
- 84 dB sensitivity (1W/0.5m)
- 2W continuous, 4W maximum power handling and 8Ω impedance
- Good for music and vocal reproduction; water-resistant cone

Frequency Response (1W @ 0.5 meters)



RoHS Compliant





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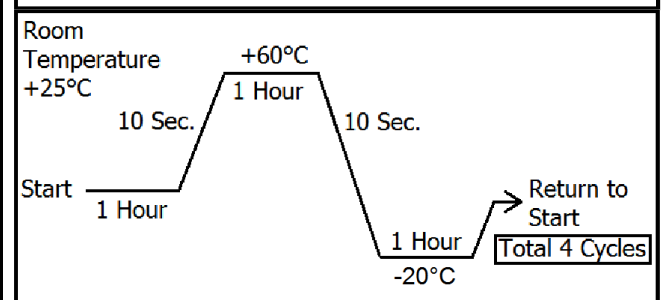
## AS04008PS-4W-WR-R 40 x 28mm Speaker

### Mechanical and Environment Testing

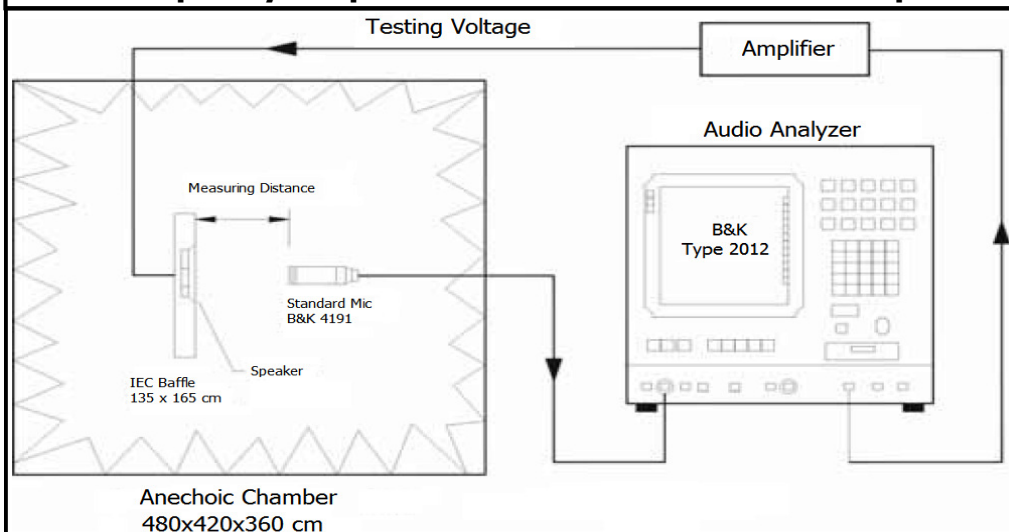
Test Description	Test Condition
High Temperature	60°C ±2°C with random humidity for 96 hours
Low Temperature	-20°C ±2°C with random humidity for 96 hours
Humidity	40°C with 90% to 95% relative humidity for 96 hours
Vibration	5G constant movement modulated at 10 to 55 Hz for 2 hours each of 3 axis
Drop Test	100 cm free fall onto 20mm thick board, 6 cycles
Temperature Cycle Test	-20°C to 60°C, 4 cycles (refer to Temperature Cycle Test Graph)

After tests, speaker shall rest for 1 hours. SPL shall not deviate ±4 dB from pre-test measurement.

### Temperature Cycle Test Graph



### Frequency Response and SPL Measurement Setup



### Thiele-Small Parameters

Specification	Value
<b>Fo (Hz)</b>	380
<b>Qes</b>	3.65
<b>Qms</b>	1.44
<b>Qts</b>	1.03
<b>Vas (mm<sup>3</sup>)</b>	17.32k
<b>Sd (mm<sup>2</sup>)</b>	600
<b>Mms (g)</b>	0.389
<b>Re (ohm)</b>	7.4
<b>BL (T)</b>	1.32