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## AS04008CO-2-R 40 x 20mm Speaker

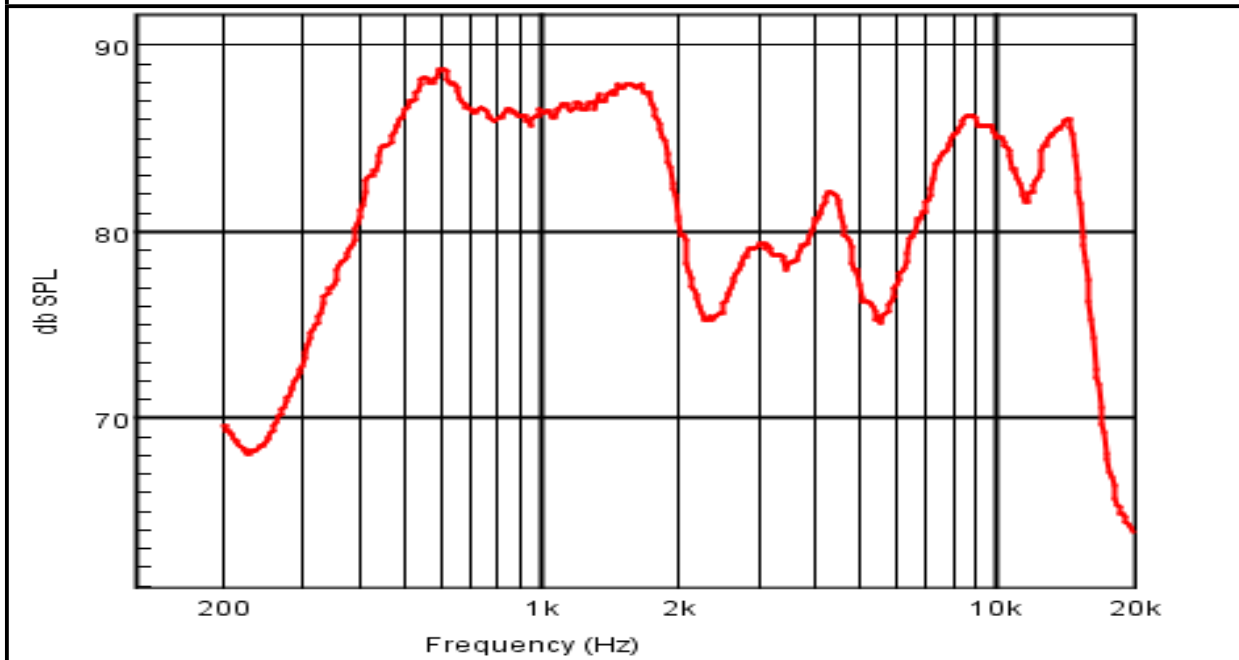
3541 Stop Eight Road • Dayton, Ohio 45414

### Product Overview

- 40 x 20mm oval speaker with Neodymium magnet
- 84 dB sensitivity (1W/0.5m)
- 1.5W continuous, 3W maximum power handling and 8Ω impedance
- Great for vocal reproduction

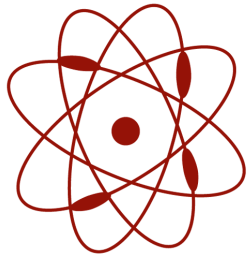


Frequency Response (1W @ 0.5 meters)



RoHS Compliant (Pb-free)





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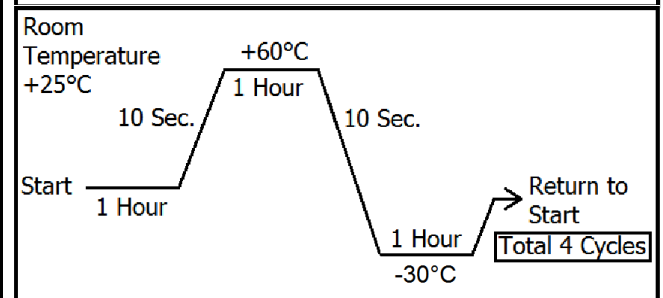
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### Mechanical and Environment Testing

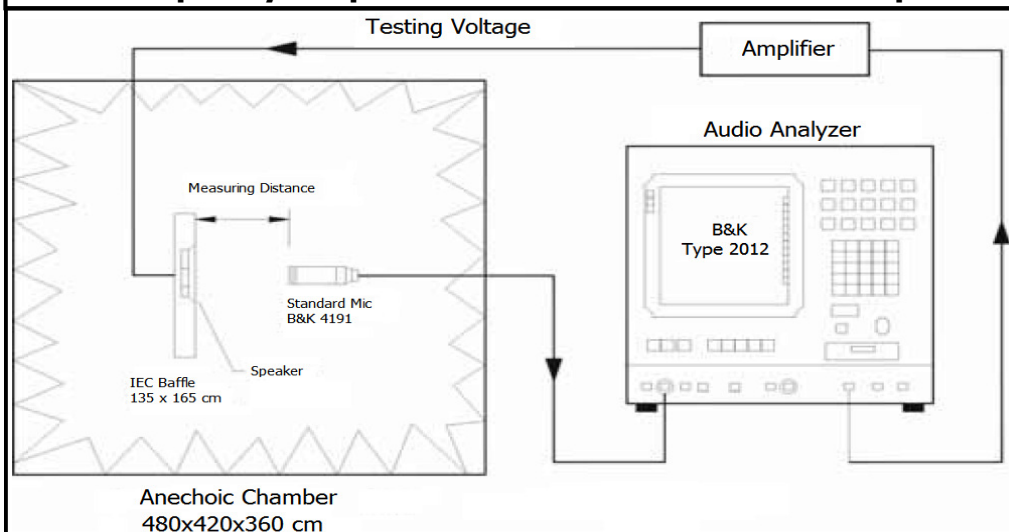
Test Description	Test Condition
High Temperature	60°C ±2°C with random humidity for 96 hours
Low Temperature	-30°C ±2°C with random humidity for 96 hours
Humidity	40°C with 90% to 95% relative humidity for 96 hours
Vibration	1.5 mm movement modulated at 10 to 55 Hz for 2 hours
Drop Test	75 cm free fall onto concrete floor, 10 cycles
Temperature Cycle Test	-30°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>	550
<b>Qes</b>	5.68
<b>Qms</b>	3.46
<b>Qts</b>	2.15
<b>Vas (mm<sup>3</sup>)</b>	9.8k
<b>Sd (mm<sup>2</sup>)</b>	452
<b>Mms (g)</b>	0.226
<b>Re (ohm)</b>	7.4
<b>BL (T)</b>	0.96