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## AS04004PO-2-WR-R 40 x 28.5mm Water Resistant Speaker

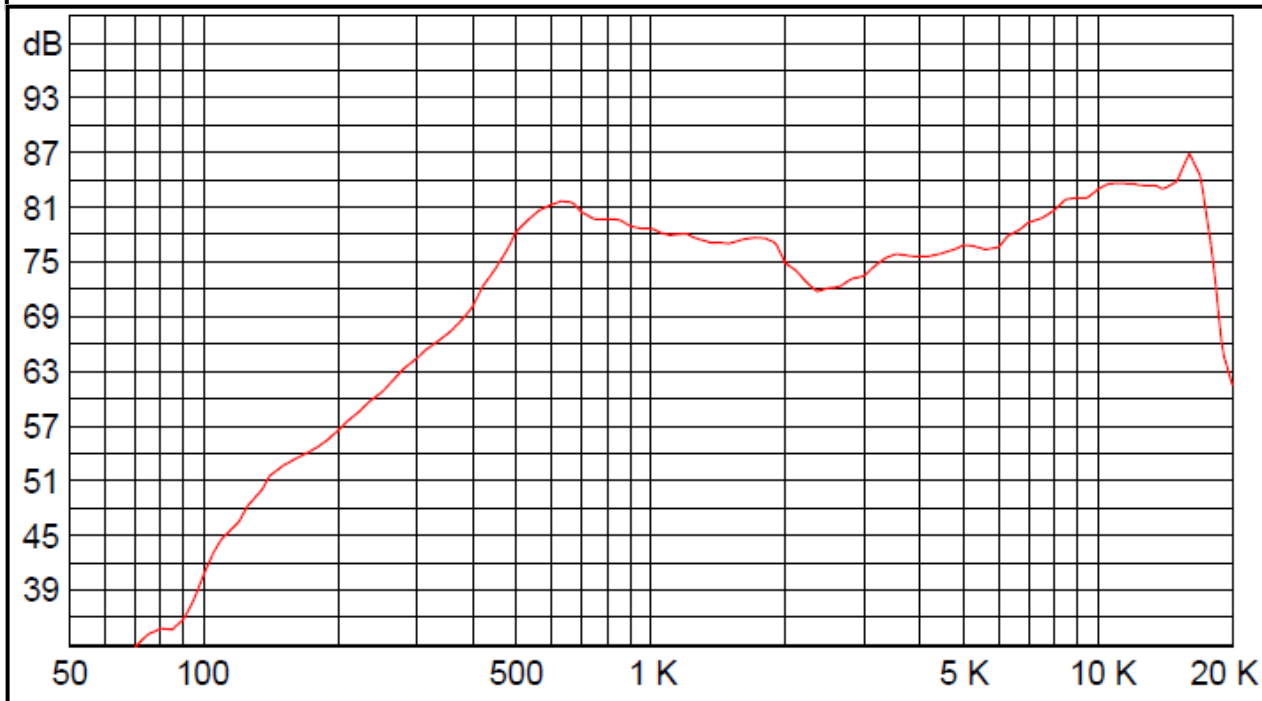


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### Product Overview

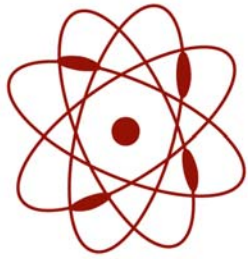
- 40 x 28.5mm oval speaker with Neodymium magnet for 82 dB sensitivity
- 3W continuous, 4W maximum power handling and 4Ω impedance
- Proprietary water resistant cone with natural sounding frequency response

Frequency Response (1W @ 0.5 meters)



2011-01-01 to 12-31-2015





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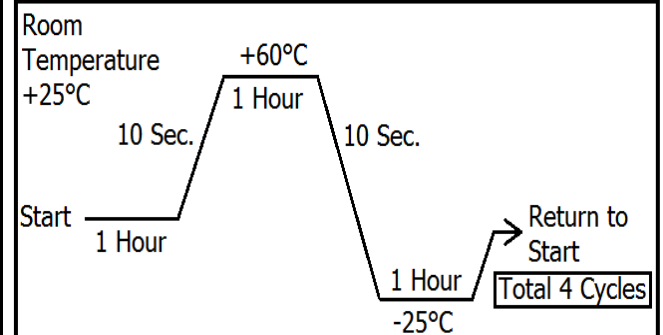
## AS04004PO-2-WR-R 40 x 28.5mm Water Resistant Speaker

### Mechanical and Environment Testing

Test Description	Test Condition
High Temperature	60°C ±2°C with random humidity for 96 hours
Low Temperature	-25°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	-25°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



### Thiele-Small Parameters

Specification	AS04004PO-2-WR-R
Fo (Hz)	420
Qes	4.509
Qms	4.414
Qts	2.231
Vas (mm <sup>3</sup> )	19.2k
Sd (mm <sup>2</sup> )	599
Mms (g)	0.309
Xmax (mm)	0.6
Re (ohm)	4.26
SPL (dB) @ 1W/1m	82
BL (T)	0.925

### Frequency Response and SPL Measurement Setup

