

## ES-02 2.0" Midrange Technical Data

## **Specifications**

**Diameter:** 2.0" (52mm)

Sensitivity: 86 dB

Power Handling: 10 WRMS (20W Pk)

With crossover: 40~100 Watts Max

Frequency Response: 400 ~ 20,00 Hz

**Nominal Impedance: 4 Ohms** 

Voice Coil Diameter: 1.0" (25mm)

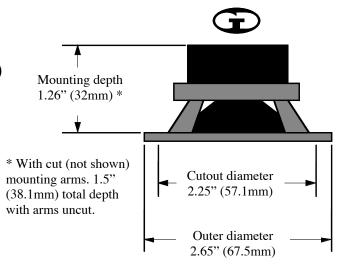
Peak Xmax: 1mm

Magnet Weight: Neodymium

Surround Rubber

Frame Cast Resin

Cone Paper



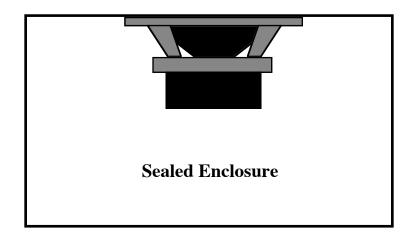
## **Thiele-Small Parameters**

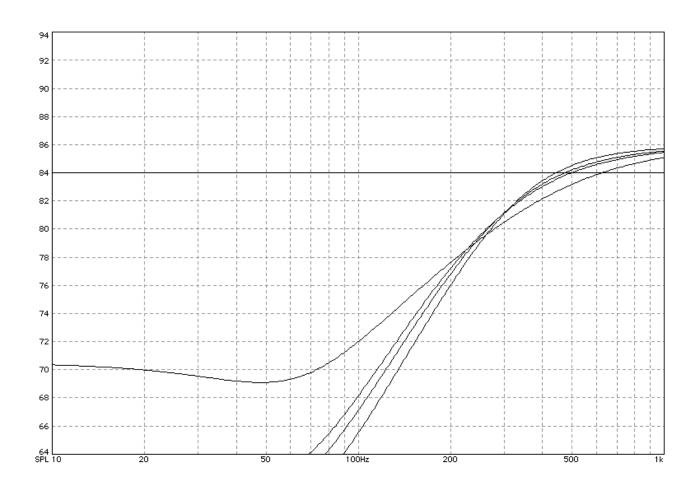
Free Air Resonance: 155 Hz
Voice Coil DC Resistance: 3.6 ohms
Voice Coil Inductance @ 1 kHz: 0.026 mH

Mechanical Q ( $Q_{ms}$ ): 4.56 Electrical Q ( $Q_{es}$ ): 0.319 Total Q ( $Q_{es}$ ): 0.298

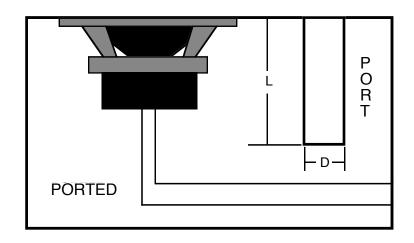
Compliance Volume (V<sub>as</sub>): 0.22L; 0.0077 ft<sup>3</sup>

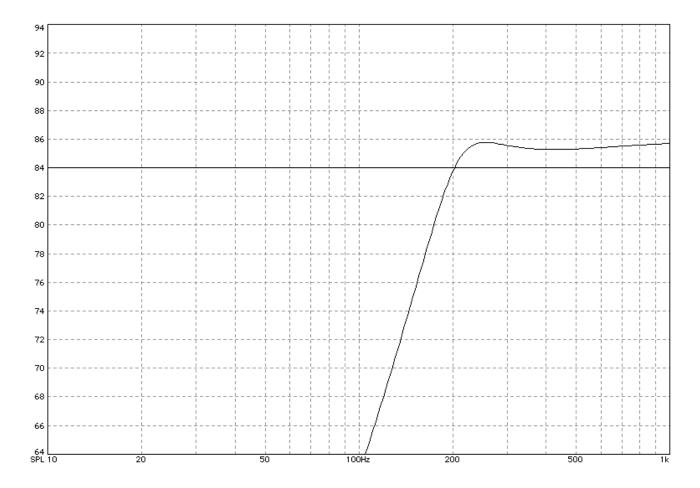
Moving mass, Diaphragm: 1.125 Gr Motor Force Factor: 3.5 Tm





Sealed Box Responses from top to bottom at 100Hz: 173, 6.05, 4.84, 3.62 cubic inches excluding driver displacement ~ 1.65 cubic inches.





## Ported Box for ideal installed response: 8.64 cubic inches excluding driver and port tube displacement Approx 5.89 cubic inches should be allowed typically for both. 200Hz port frequency, 5.4" long by .75" inner diameter port tube Tube OD assumed to be 1".