

The 93075 is a low-profile, lightweight, flame-retardant woofer designed for sealed or vented enclosures within a high-end aerospace audio system. It's also ideal in compact enclosures like bookshelf speakers or other home audio projects.

- Woofer
- 4 inch (100 mm) cast aluminum basket diameter
- 20 watts, 8 ohm, 82 dB SPL
- 1 inch copper voice coil, polyimide former
- 8.9 Oz neodymium magnet
- Aluminum dome cone, flame retardant rubber surround

MISCO engineers test and analyze the performance of these speakers using the world's most sophisticated loudspeaker measurement systems, including the Klippel Analyzer and the Klippel QC, which confirm the final design.

Pair this woofer with one of our [MISCO Amplifiers](#).



#### Primary Specifications

<b>Size, Nominal (inch &amp; mm)</b>	4" (100 mm)
<b>Rated Impedance (<math>\Omega</math>)</b>	8
<b>Continuous Power (W)</b>	20
<b>Sensitivity (dB SPL) <sup>1</sup></b>	82
<b>Frequency Range (Hz)</b>	52 - 20,000
<b>Resonant Frequency (Fs) (Hz) +/- 15%</b>	75

### More Specifications

<b>Application</b>	Aerospace, Home Audio, Indoor
<b>RoHS Compliant</b>	Yes
<b>DC Resistance (Re) (<math>\Omega</math>)</b>	6.2
<b>Program Power (W)</b>	30
<b>Continuous Power (W)</b>	20

### Small Signal Parameters

<b>Nominal Impedance (Z) (<math>\Omega</math>)</b>	8
<b>DC Resistance (Re) (<math>\Omega</math>)</b>	6.2
<b>Voice Coil Inductance (Le) (mH)</b>	0.37
<b>Resonant Frequency (Fs) (Hz) +/- 15%</b>	75
<b>Mechanical Q Factor (Qms)</b>	4.83
<b>Electrical Q Factor (Qes)</b>	1.18
<b>Total Q Factor (Qts)</b>	0.95
<b>Moving Mass (Mms) (gm)</b>	7.1
<b>Suspension Compliance (Cms) (mm/N)</b>	0.63
<b>Mechanical Resistance (Rms) (kg/s)</b>	0.70
<b>Surface Area of Diaphragm (Sd) (cm<sup>2</sup>)</b>	52.8
<b>Compliance Equivalent Volume (Vas) (L)</b>	2.48
<b>Motor Force Factor (BL) (T•M)</b>	4.2
<b>Efficiency (<math>\eta_0</math>) (%)</b>	0.09
<b>Efficiency Bandwidth Product (EBP) (Fs/Qes)</b>	63.7

### Material Descriptions

<b>Basket Type</b>	Cast aluminum
<b>Terminal Size (mm)</b>	6.4 x 0.5 / 7.1 x 0.5
<b>Voice Coil Diameter (mm)</b>	25.4
<b>Voice Coil Wire Material</b>	Aluminum
<b>Voice Coil Former Material</b>	Polyimide film
<b>Magnet Material</b>	Neodymium
<b>Magnet Weight (g)</b>	22.67
<b>Cone Body Material</b>	Aluminum
<b>Cone Surround Material</b>	Flame retardant treated rubber
<b>Dust Cap Material</b>	Aluminum
<b>Net Weight (kg)</b>	0.23

