MODEL #: 100-WF08-01

4 INCH (100 MM) 8 OHM, COMPACT WOOFER

PART #: 93075

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

Size, Nominal (inch & mm)	4" (100 mm)
Rated Impedance (Ω)	8
Continuous Power (W)	20
Sensitivity (dB SPL) [1]	82
Frequency Range (Hz)	52 - 20, 000
Resonant Frequency (Fs) (Hz) +/- 15%	75

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More Specifications

Application	Aerospace, Home Audio, Indoor
RoHS Compliant	Yes
DC Resistance (Re) (Ω)	6.2
Program Power (W)	30
Continuous Power (W)	20

Small Signal Parameters

Nominal Impedance (Z) (Ω)	8
DC Resistance (Re) (Ω)	6.2
Voice Coil Inductance (Le) (mH)	0.37
Resonant Frequency (Fs) (Hz) +/- 15%	75
Mechanical Q Factor (Qms)	4.83
Electrical Q Factor (Qes)	1.18
Total Q Factor (Qts)	0.95
Moving Mass (Mms) (gm)	7.1
Suspension Compliance (Cms) (mm/N)	0.63
Mechanical Resistance (Rms) (kg/s)	0.70
Surface Area of Diaphragm (Sd) (cm^2)	52.8
Compliance Equivalent Volume (Vas) (L)	2.48
Motor Force Factor (BL) (T•M)	4.2
Efficiency (η_0) (%)	0.09
Efficiency Bandwidth Product (EBP) (Fs/Qes)	63.7

Material Descriptions

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

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