

MISCO Oaktron woofers like the 93028 are ideal as a high-quality solution for new and old multi-way speaker systems. A smooth frequency response from this bookshelf speaker delivers crisp sounds for home theater sound boxes, arcade cabinets, gaming enclosures, and more.

- Woofer
- 5 in. (127 mm) basket diameter
- 40 watts, 8 ohms, 87 dB SPL
- 1 in. copper voice coil, Kapton former
- Ferrite magnet, stamped steel frame
- Polypropylene cone, natural 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)	5" (127 mm)
Rated Impedance (Ω)	8
Continuous Power (W)	40
Sensitivity (dB SPL) ¹	87
Frequency Range (Hz)	80 - 7,000
Resonant Frequency (Fs) (Hz) +/- 15%	45

More Specifications

Application	Arcade Gaming, High-End Audio and Home Theater, Home Audio
RoHS Compliant	No
DC Resistance (Re) (Ω)	6.9
Program Power (W)	80
Continuous Power (W)	40

Small Signal Parameters

Nominal Impedance (Z) (Ω)	8
DC Resistance (Re) (Ω)	6.9
Voice Coil Inductance (Le) (mH)	0.49
Resonant Frequency (Fs) (Hz) +/- 15%	45
Mechanical Q Factor (Qms)	4.40
Electrical Q Factor (Qes)	1.03
Total Q Factor (Qts)	0.84
Moving Mass (Mms) (gm)	6.7
Suspension Compliance (Cms) (mm/N)	1.15
Mechanical Resistance (Rms) (kg/s)	0.55
Surface Area of Diaphragm (Sd) (cm²)	62.2
Compliance Equivalent Volume (Vas) (L)	6.31
Maximum Linear Excursion (Xmax) (mm)	1.6
Motor Force Factor (BL) (T•M)	4.0
Efficiency (η_0) (%)	0.11
Efficiency Bandwidth Product (EBP) (Fs/Qes)	43.6

Material Descriptions

Basket Type	Stamped steel
Terminal Size (mm)	5.2 x 0.5
Voice Coil Diameter (mm)	25.2
Voice Coil Wire Material	Copper
Voice Coil Former Material	Kapton
Magnet Material	Ferrite
Magnet Weight (g)	283.5
Cone Body Material	Polypropylene
Cone Surround Material	Natural rubber
Dust Cap Material	Polypropylene

Net Weight (kg)	0.87
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