

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" (127 mm) basket diameter
- 40 watts, 8 ohms, 87 dB SPL
- 1" 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

<b>Size, Nominal (inch &amp; mm)</b>	5"
<b>Rated Impedance (<math>\Omega</math>)</b>	8
<b>Continuous Power (W)</b>	40
<b>Sensitivity (dB SPL) <sup>1</sup></b>	87
<b>Frequency Range (Hz)</b>	80 - 7,000
<b>Resonant Frequency (Fs) (Hz)</b>	45

### More Specifications

<b>Application</b>	Arcade Gaming, High-End Audio and Home Theater, Home Audio, Musical Instruments
<b>RoHS Compliant</b>	No
<b>DC Resistance (Re) (<math>\Omega</math>)</b>	6.9
<b>Program Power (W)</b>	80
<b>Continuous Power (W)</b>	40

### Small Signal Parameters

<b>Nominal Impedance (Z) (<math>\Omega</math>)</b>	8
<b>DC Resistance (Re) (<math>\Omega</math>)</b>	6.9
<b>Voice Coil Inductance (Le) (mH)</b>	0.49
<b>Resonant Frequency (Fs) (Hz)</b>	45
<b>Mechanical Q Factor (Qms)</b>	4.40
<b>Electrical Q Factor (Qes)</b>	1.03
<b>Total Q Factor (Qts)</b>	0.84
<b>Moving Mass (Mms) (gm)</b>	6.7
<b>Suspension Compliance (Cms) (mm/N)</b>	1.15
<b>Mechanical Resistance (Rms) (kg/s)</b>	0.55
<b>Surface Area of Diaphragm (Sd) (cm<sup>2</sup>)</b>	62.2
<b>Compliance Equivalent Volume (Vas) (L)</b>	6.31
<b>Maximum Linear Excursion (Xmax) (mm)</b>	1.6
<b>Motor Force Factor (BL) (T•M)</b>	4.0
<b>Efficiency (<math>\eta_0</math>) (%)</b>	0.11
<b>Efficiency Bandwidth Product (EBP) (Fs/Qes)</b>	43.6

### Material Descriptions

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

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<b>Net Weight (kg)</b>	0.87
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