

MISCO Oaktron woofers like the 93027 are ideal as both driver replacements and the foundation of many DIY loudspeaker projects. High-quality bass and a smooth frequency response make this bookshelf speaker a great addition to gaming cabinets, home audio sound bars, and music sound systems with vented enclosures.

- Woofer
- 5.25 in. (133 mm) basket diameter
- 40 watts, 4 ohms, 89 dB SPL
- 1 in. copper voice coil, Kapton former
- Ferrite magnet, stamped steel frame
- Polypropylene cone, cloth 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" (127 mm)
<b>Rated Impedance (<math>\Omega</math>)</b>	4
<b>Continuous Power (W)</b>	40
<b>Sensitivity (dB SPL) <sup>1</sup></b>	89
<b>Frequency Range (Hz)</b>	80 - 7,000
<b>Resonant Frequency (Fs) (Hz) +/- 15%</b>	45

### More Specifications

<b>Application</b>	Arcade Gaming, High-End Audio and Home Theater, Home Audio
<b>RoHS Compliant</b>	No
<b>DC Resistance (Re) (<math>\Omega</math>)</b>	3.4
<b>Program Power (W)</b>	80
<b>Continuous Power (W)</b>	40

### Small Signal Parameters

<b>Nominal Impedance (Z) (<math>\Omega</math>)</b>	4
<b>DC Resistance (Re) (<math>\Omega</math>)</b>	3.4
<b>Voice Coil Inductance (Le) (mH)</b>	0.32
<b>Resonant Frequency (Fs) (Hz) +/- 15%</b>	45
<b>Mechanical Q Factor (Qms)</b>	4.60
<b>Electrical Q Factor (Qes)</b>	0.40
<b>Total Q Factor (Qts)</b>	0.36
<b>Moving Mass (Mms) (gm)</b>	7.2
<b>Suspension Compliance (Cms) (mm/N)</b>	1.09
<b>Mechanical Resistance (Rms) (kg/s)</b>	0.56
<b>Surface Area of Diaphragm (Sd) (cm<sup>2</sup>)</b>	62.2
<b>Compliance Equivalent Volume (Vas) (L)</b>	5.97
<b>Maximum Linear Excursion (Xmax) (mm)</b>	1.6
<b>Motor Force Factor (BL) (T•M)</b>	4.7
<b>Efficiency (<math>\eta_0</math>) (%)</b>	0.26
<b>Efficiency Bandwidth Product (EBP) (Fs/Qes)</b>	113.6

### Material Descriptions

<b>Basket Type</b>	Stamped steel
<b>Terminal Size (mm)</b>	5.2 x 0.5
<b>Voice Coil Diameter (mm)</b>	25.4
<b>Voice Coil Wire Material</b>	Copper
<b>Voice Coil Former Material</b>	Kapton
<b>Magnet Material</b>	Ferrite
<b>Magnet Weight (g)</b>	283.5
<b>Cone Body Material</b>	Polypropylene
<b>Cone Surround Material</b>	Treated cloth
<b>Dust Cap Material</b>	Polypropylene

Net Weight (kg)

0.88

