

The Oaktron 93079 midrange driver contains a powerful ferrite magnet, a paper cone, and a vinyl treated cloth surround to give you high intelligibility sound; all in a self-enclosed basket for easy system integration into your next audio project.

- Midrange speaker
- 5" (127 mm) basket diameter
- 15 watts, 8 ohm, 100 dB SPL
- 1" copper voice coil, aluminum former
- Ferrite magnet, stamped steel basket
- Paper cone, cloth surround

*Oaktron by MISCO* is a premium line of high performance, ready-to-ship transducers and drivers for a wide variety of applications including high fidelity, arcade, and casino games, automotive, aerospace and many more. From elegantly simple to highly specialized designs for unique and demanding applications, there is an Oaktron loudspeaker perfectly suited for your needs.

MISCO engineers use the world's most sophisticated loudspeaker measurement systems including the Klippel Analyzer to maximize and validate the speaker's design, as well as the Klippel QC module to ensure perfect unit to unit consistency and reliability.



### Primary Specifications

<b>Size, Nominal (inch &amp; mm)</b>	5" (127 mm)
<b>Rated Impedance (<math>\Omega</math>)</b>	8
<b>Continuous Power (W)</b>	15
<b>Sensitivity (dB SPL) <sup>1</sup></b>	100
<b>Frequency Range (Hz)</b>	400 - 8,000
<b>Resonant Frequency (Fs) (Hz) +/- 15%</b>	478

### More Specifications

<b>Application</b>	Pro Sound
<b>RoHS Compliant</b>	No
<b>DC Resistance (Re) (<math>\Omega</math>)</b>	6.8
<b>Program Power (W)</b>	30
<b>Continuous Power (W)</b>	15

### Small Signal Parameters

<b>Nominal Impedance (Z) (<math>\Omega</math>)</b>	8
<b>DC Resistance (Re) (<math>\Omega</math>)</b>	6.8
<b>Voice Coil Inductance (Le) (mH)</b>	0.001
<b>Resonant Frequency (Fs) (Hz) +/- 15%</b>	478
<b>Mechanical Q Factor (Qms)</b>	1.89
<b>Electrical Q Factor (Qes)</b>	7.78
<b>Total Q Factor (Qts)</b>	1.78
<b>Moving Mass (Mms) (gm)</b>	3.9
<b>Suspension Compliance (Cms) (mm/N)</b>	1.51
<b>Mechanical Resistance (Rms) (kg/s)</b>	3.41
<b>Surface Area of Diaphragm (Sd) (cm<sup>2</sup>)</b>	58.1
<b>Compliance Equivalent Volume (Vas) (L)</b>	0.14
<b>Maximum Linear Excursion (Xmax) (mm)</b>	0.9
<b>Coil Winding Height (mm)</b>	6.4
<b>Magnetic Gap Height (mm)</b>	4.5
<b>Motor Force Factor (BL) (T•M)</b>	5.9
<b>Efficiency (<math>\eta_0</math>) (%)</b>	0.14
<b>Efficiency Bandwidth Product (EBP) (Fs/Qes)</b>	61.5

### Material Descriptions

<b>Basket Type</b>	Stamped steel
<b>Terminal Size (mm)</b>	Solder lugs
<b>Voice Coil Diameter (mm)</b>	25.81
<b>Voice Coil Wire Material</b>	Copper
<b>Voice Coil Former Material</b>	Aluminum
<b>Magnet Material</b>	Ferrite
<b>Magnet Weight (g)</b>	283.5
<b>Cone Body Material</b>	Paper
<b>Cone Surround Material</b>	Treated cloth

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<b>Spider Material</b>	Cotton
<b>Dust Cap Material</b>	Paper
<b>Net Weight (kg)</b>	0.86

