

This Oaktron driver provides excellent voice and midrange reproduction. Its treated Kevlar fiber cone resists modal break-up, leading to high intelligibility and natural vocals. The 93073 is an excellent choice for line arrays, due to its compact size, power handling, and high sensitivity -- all available for both indoor and outdoor applications.

- Midrange speaker
- 4" (100 mm) basket diameter
- 40 watts, 8 ohms, 92 dB SPL
- 1" copper voice coil, polyimide film former
- Ferrite magnet, stamped steel basket
- Kevlar fiber cone, pleated cloth surround

*Oaktron by MISCO* is a premium line of high performance, ready-to-ship raw speaker drivers for a wide variety of applications including high end home audio, 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>	4" (100 mm)
<b>Rated Impedance (<math>\Omega</math>)</b>	8
<b>Continuous Power (W)</b>	40
<b>Sensitivity (dB SPL) <sup>1</sup></b>	92
<b>Frequency Range (Hz)</b>	100 - 8, 500
<b>Resonant Frequency (Fs) (Hz) +/- 15%</b>	130

### More Specifications

<b>Application</b>	Commercial, Pro Sound, Transit, Voice Communications
<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>	0.35
<b>Resonant Frequency (Fs) (Hz) +/- 15%</b>	130
<b>Mechanical Q Factor (Qms)</b>	7.64
<b>Electrical Q Factor (Qes)</b>	0.59
<b>Total Q Factor (Qts)</b>	0.55
<b>Moving Mass (Mms) (gm)</b>	4.4
<b>Suspension Compliance (Cms) (mm/N)</b>	0.34
<b>Mechanical Resistance (Rms) (kg/s)</b>	0.47
<b>Surface Area of Diaphragm (Sd) (cm<sup>2</sup>)</b>	65.0
<b>Compliance Equivalent Volume (Vas) (L)</b>	2.03
<b>Maximum Linear Excursion (Xmax) (mm)</b>	1.4
<b>Coil Winding Height (mm)</b>	8.9
<b>Magnetic Gap Height (mm)</b>	6.0
<b>Motor Force Factor (BL) (T•M)</b>	6.5
<b>Efficiency (<math>\eta_0</math>) (%)</b>	0.74
<b>Efficiency Bandwidth Product (EBP) (Fs/Qes)</b>	222.0

### Material Descriptions

<b>Basket Type</b>	Stamped steel, black powder coat finish
<b>Terminal Size (mm)</b>	5.2 x 0.5 mm
<b>Voice Coil Diameter (mm)</b>	25.8
<b>Voice Coil Wire Material</b>	Copper
<b>Voice Coil Former Material</b>	Polyimide film
<b>Magnet Material</b>	Ferrite
<b>Magnet Weight (g)</b>	341
<b>Cone Body Material</b>	Treated kevlar fiber

<b>Cone Surround Material</b>	Treated pleated cloth
<b>Spider Material</b>	Cloth
<b>Dust Cap Material</b>	Treated paper
<b>Net Weight (kg)</b>	0.93





