

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

Size, Nominal (inch & mm)	4" (100 mm)
Rated Impedance (Ω)	8
Continuous Power (W)	40
Sensitivity (dB SPL) ¹	92
Frequency Range (Hz)	100 - 8, 500
Resonant Frequency (Fs) (Hz) +/- 15%	130

More Specifications

Application	Commercial, Pro Sound, Transit, Voice Communications
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)	0.35
Resonant Frequency (Fs) (Hz) +/- 15%	130
Mechanical Q Factor (Qms)	7.64
Electrical Q Factor (Qes)	0.59
Total Q Factor (Qts)	0.55
Moving Mass (Mms) (gm)	4.4
Suspension Compliance (Cms) (mm/N)	0.34
Mechanical Resistance (Rms) (kg/s)	0.47
Surface Area of Diaphragm (Sd) (cm²)	65.0
Compliance Equivalent Volume (Vas) (L)	2.03
Maximum Linear Excursion (Xmax) (mm)	1.4
Coil Winding Height (mm)	8.9
Magnetic Gap Height (mm)	6.0
Motor Force Factor (BL) (T•M)	6.5
Efficiency (η_0) (%)	0.74
Efficiency Bandwidth Product (EBP) (Fs/Qes)	222.0

Material Descriptions

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

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



Frequency & Impedance Response





