

From well-constructed melodies to simple riffs and chords, music has the potential to fuse into your most cherished memories and relationships. You deserve a listening experience faithful to the original recording, without unwanted acoustic distortions or mechanical distractions. For this reason, we designed the 93087, a unique full-range loudspeaker created to reproduce music with accuracy for high-end, single transducer systems without cross-over requirements.

To reach true fidelity, MISCO designed the 93087 with a sensitivity of 94 dB SPL, an exotic banana pulp, dual cone whizzer, a cotton spider for optimized dispersion and damping capacities, and an EBP rating of 98 – making this driver ideal for vented enclosures. With this driver, we guarantee trustworthy, reliable sound for your next home-audio project.

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



### Primary Specifications

<b>Size, Nominal (inch &amp; mm)</b>	8" (203 mm)
<b>Rated Impedance (<math>\Omega</math>)</b>	8
<b>Continuous Power (W)</b>	30
<b>Sensitivity (dB SPL) <sup>1</sup></b>	94
<b>Frequency Range (Hz)</b>	45 - 15, 000
<b>Resonant Frequency (Fs) (Hz)</b>	52

### More Specifications

<b>Application</b>	High-End Audio and Home Theater
<b>RoHS Compliant</b>	Yes
<b>DC Resistance (Re) (<math>\Omega</math>)</b>	6.0
<b>Program Power (W)</b>	60
<b>Continuous Power (W)</b>	30

### Small Signal Parameters

<b>Nominal Impedance (Z) (<math>\Omega</math>)</b>	8
<b>DC Resistance (Re) (<math>\Omega</math>)</b>	6.0
<b>Voice Coil Inductance (Le) (mH)</b>	0.38
<b>Resonant Frequency (Fs) (Hz)</b>	52
<b>Mechanical Q Factor (Qms)</b>	3.42
<b>Electrical Q Factor (Qes)</b>	0.53
<b>Total Q Factor (Qts)</b>	0.46
<b>Moving Mass (Mms) (gm)</b>	10.9
<b>Suspension Compliance (Cms) (mm/N)</b>	0.85
<b>Mechanical Resistance (Rms) (kg/s)</b>	1.05
<b>Surface Area of Diaphragm (Sd) (cm<sup>2</sup>)</b>	221.7
<b>Compliance Equivalent Volume (Vas) (L)</b>	59.05
<b>Maximum Linear Excursion (Xmax) (mm)</b>	1.8
<b>Coil Winding Height (mm)</b>	9.9
<b>Magnetic Gap Height (mm)</b>	6.3
<b>Motor Force Factor (BL) (T•M)</b>	6.4
<b>Efficiency (<math>\eta_0</math>) (%)</b>	1.55
<b>Efficiency Bandwidth Product (EBP) (Fs/Qes)</b>	98.5

### Material Descriptions

<b>Basket Type</b>	Aluminum
<b>Terminal Size (mm)</b>	6.4 x 0.8 mm / 4.7 x 0.5 mm
<b>Voice Coil Diameter (mm)</b>	25.81
<b>Voice Coil Wire Material</b>	Copper clad aluminum
<b>Voice Coil Former Material</b>	Kapton
<b>Magnet Material</b>	Ferrite
<b>Magnet Weight (g)</b>	567
<b>Cone Body Material</b>	Paper
<b>Cone Surround Material</b>	Treated cloth

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<b>Spider Material</b>	Treated cloth
<b>Dust Cap Material</b>	Paper
<b>Net Weight (kg)</b>	1



