

At the heart of every personal audio project lives someone who craves a meaningful experience only music can provide. That someone deserves an experience unmarred by mechanical imperfections and acoustic inconsistencies. That's why MISCO designed the 93085: A unique, full-range loudspeaker that reproduces music as accurately as possible for high-end, single transducer systems without cross-over requirements.

To achieve faithful reproduction, the 93085 uses a hard fiber dual-cone and a cotton spider to optimize dispersion and damping capacities for an ideal transient response. Along with that is an EBP of 86 to fit within either a sealed or vented enclosure, allowing you to apply your personal listening preferences to this driver's strong bass reflex. If you need true audio fidelity, then this is the speaker for you.

*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>	6" (152 mm)
<b>Rated Impedance (<math>\Omega</math>)</b>	8
<b>Continuous Power (W)</b>	30
<b>Sensitivity (dB SPL) <sup>1</sup></b>	93
<b>Frequency Range (Hz)</b>	45 - 14, 000
<b>Resonant Frequency (Fs) (Hz) +/- 15%</b>	45

### More Specifications

<b>Application</b>	Home Audio
<b>RoHS Compliant</b>	Yes
<b>DC Resistance (Re) (<math>\Omega</math>)</b>	7.3
<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>	7.3
<b>Voice Coil Inductance (Le) (mH)</b>	0.42
<b>Resonant Frequency (Fs) (Hz) +/- 15%</b>	45
<b>Mechanical Q Factor (Qms)</b>	10.52
<b>Electrical Q Factor (Qes)</b>	0.52
<b>Total Q Factor (Qts)</b>	0.50
<b>Moving Mass (Mms) (gm)</b>	8.3
<b>Suspension Compliance (Cms) (mm/N)</b>	1.54
<b>Mechanical Resistance (Rms) (kg/s)</b>	0.22
<b>Surface Area of Diaphragm (Sd) (cm<sup>2</sup>)</b>	149.6
<b>Compliance Equivalent Volume (Vas) (L)</b>	48.69
<b>Maximum Linear Excursion (Xmax) (mm)</b>	1.2
<b>Coil Winding Height (mm)</b>	8.6
<b>Magnetic Gap Height (mm)</b>	6.3
<b>Motor Force Factor (BL) (T•M)</b>	5.7
<b>Efficiency (<math>\eta_0</math>) (%)</b>	0.8
<b>Efficiency Bandwidth Product (EBP) (Fs/Qes)</b>	86.2

### 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>	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>	1.02



