

The 93006 provides indoor, wide range sound for voice communications and music systems, all at an affordable price. A ferrite magnet and steel basket with a paper cone make this speaker ideal for gaming cabinets, medical devices, and music systems. This driver's design allows for easy rear mounting, thanks to a special inverted cloth surround and a set of quick-connect terminals.

- Wide range speaker
- 2.5" (66 mm) basket diameter
- 3 watts, 8 ohms, 94 dB SPL
- Ferrite magnet, stamped steel basket
- Paper cone, inverted cloth surround
- Quick-connect terminals

*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>	2" (50 mm)
<b>Rated Impedance (<math>\Omega</math>)</b>	8
<b>Continuous Power (W)</b>	3
<b>Sensitivity (dB SPL) <sup>1</sup></b>	94
<b>Frequency Range (Hz)</b>	140 - 20, 000
<b>Resonant Frequency (Fs) (Hz) +/- 15%</b>	339

### More Specifications

<b>Application</b>	Arcade Gaming, Casino Gaming, Voice Communications
<b>RoHS Compliant</b>	Yes
<b>DC Resistance (Re) (<math>\Omega</math>)</b>	7.8
<b>Program Power (W)</b>	5
<b>Continuous Power (W)</b>	3

### Small Signal Parameters

<b>Nominal Impedance (Z) (<math>\Omega</math>)</b>	8
<b>DC Resistance (Re) (<math>\Omega</math>)</b>	7.8
<b>Voice Coil Inductance (Le) (mH)</b>	0.14
<b>Resonant Frequency (Fs) (Hz) +/- 15%</b>	339
<b>Mechanical Q Factor (Qms)</b>	5.84
<b>Electrical Q Factor (Qes)</b>	3.14
<b>Total Q Factor (Qts)</b>	2.04
<b>Moving Mass (Mms) (gm)</b>	1.1
<b>Suspension Compliance (Cms) (mm/N)</b>	0.20
<b>Mechanical Resistance (Rms) (kg/s)</b>	0.41
<b>Surface Area of Diaphragm (Sd) (cm<sup>2</sup>)</b>	20.4
<b>Compliance Equivalent Volume (Vas) (L)</b>	0.12
<b>Motor Force Factor (BL) (T•M)</b>	2.4
<b>Efficiency (<math>\eta_0</math>) (%)</b>	0.14
<b>Efficiency Bandwidth Product (EBP) (Fs/Qes)</b>	107.8

### Material Descriptions

<b>Basket Type</b>	Stamped steel
<b>Terminal Size (mm)</b>	2.8 x 0.5
<b>Voice Coil Wire Material</b>	High temperature copper
<b>Magnet Material</b>	Ferrite
<b>Cone Body Material</b>	Paper
<b>Cone Surround Material</b>	Treated cloth
<b>Spider Material</b>	Cloth
<b>Dust Cap Material</b>	Mylar
<b>Net Weight (kg)</b>	0.13



