

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

Size, Nominal (inch & mm)	2" (50 mm)
Rated Impedance (Ω)	8
Continuous Power (W)	3
Sensitivity (dB SPL) ¹	94
Frequency Range (Hz)	140 - 20, 000
Resonant Frequency (Fs) (Hz) +/- 15%	339

More Specifications

Application	Arcade Gaming, Casino Gaming, Voice Communications
RoHS Compliant	Yes
DC Resistance (Re) (Ω)	7.8
Program Power (W)	5
Continuous Power (W)	3

Small Signal Parameters

Nominal Impedance (Z) (Ω)	8
DC Resistance (Re) (Ω)	7.8
Voice Coil Inductance (Le) (mH)	0.14
Resonant Frequency (Fs) (Hz) +/- 15%	339
Mechanical Q Factor (Qms)	5.84
Electrical Q Factor (Qes)	3.14
Total Q Factor (Qts)	2.04
Moving Mass (Mms) (gm)	1.1
Suspension Compliance (Cms) (mm/N)	0.20
Mechanical Resistance (Rms) (kg/s)	0.41
Surface Area of Diaphragm (Sd) (cm²)	20.4
Compliance Equivalent Volume (Vas) (L)	0.12
Motor Force Factor (BL) (T•M)	2.4
Efficiency (η_0) (%)	0.14
Efficiency Bandwidth Product (EBP) (Fs/Qes)	107.8

Material Descriptions

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



