

An oval shaped full range Oaktron driver with a paper whizzer attached for clearer high frequencies—designed for line arrays, car audio systems, and voice communications. This model includes a corrugated surround to lower distortion, a 10 Oz ferrite magnet, a 1" copper voice coil, and a paper composite cone.

- Full range speaker
- 6 x 9" (150 mm x 229 mm) diameter basket
- 15 watts, 4 ohms, 95 dB SPL
- 1" copper voice coil, Kapton former
- 10 Oz ferrite magnet
- Paper cone, corrugated surround.

MISCO engineers test and analyze the performance of these speakers using the world's most sophisticated loudspeaker measurement systems including the Klippel Analyzer and the Klippel QC, which are used to validate final design.

Oaktron by MISCO is the premium line of high performance, ready-to-ship transducers for a wide variety of applications including high fidelity, musical instrument, automotive 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.



Primary Specifications

| | |
|----------------------------------------------|------------------|
| Size, Nominal (inch & mm) | 6" Oval (152 mm) |
| Rated Impedance (Ω) | 4 |
| Continuous Power (W) | 15 |
| Sensitivity (dB SPL) ¹ | 95 |
| Frequency Range (Hz) | 40 - 18,000 |
| Resonant Frequency (Fs) (Hz) | 56 |

More Specifications

| | |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Application | Arcade Gaming, Auto / Motorcycle, Commercial, Home Audio, Indoor, Musical Instruments, Pro Sound, Transit, Voice Communications |
| RoHS Compliant | No |
| DC Resistance (Re) (Ω) | 3.6 |
| Program Power (W) | 30 |
| Continuous Power (W) | 15 |

Small Signal Parameters

| | |
|--------------------------------------------------------|--------|
| Nominal Impedance (Z) (Ω) | 4 |
| DC Resistance (Re) (Ω) | 3.6 |
| Voice Coil Inductance (Le) (mH) | 0.38 |
| Resonant Frequency (Fs) (Hz) | 56 |
| Mechanical Q Factor (Qms) | 7.04 |
| Electrical Q Factor (Qes) | 0.76 |
| Total Q Factor (Qts) | 0.69 |
| Moving Mass (Mms) (gm) | 12.51 |
| Suspension Compliance (Cms) (mm/N) | 0.65 |
| Mechanical Resistance (Rms) (kg/s) | 0.62 |
| Surface Area of Diaphragm (Sd) (cm²) | 223.18 |
| Compliance Equivalent Volume (Vas) (L) | 46.12 |
| Maximum Linear Excursion (Xmax) (mm) | 4.7 |
| Motor Force Factor (BL) (T•M) | 4.5 |
| Efficiency (η_0) (%) | 1.03 |
| Efficiency Bandwidth Product (EBP) (Fs/Qes) | 81.5 |

Material Descriptions

| | |
|-----------------------------------|--------------------------------------|
| Basket Type | Stamped steel with black powder coat |
| Terminal Size (mm) | 5.2 x 0.5 mm |
| Voice Coil Diameter (mm) | 25.8 |
| Voice Coil Wire Material | Copper |
| Voice Coil Former Material | Kapton |
| Magnet Material | Ferrite |
| Magnet Weight (g) | 283.50 |
| Cone Body Material | Paper composite |
| Cone Surround Material | Corrugated treated cloth |

| | |
|--------------------------|---------------|
| Spider Material | Cotton |
| Dust Cap Material | Paper whizzer |
| Net Weight (kg) | 1.04 |



Frequency & Impedance Response



