

A compact, wide range speaker for voice communications, gaming cabinet enclosures, and 2.1 channel audio systems. This 2" football-shaped driver includes a powerful neodymium magnet, a high-stiffness aluminum cone, and a corrosion-resistant steel basket with zinc plating.

- Wide range speaker
- 2" (50 mm) steel basket diameter (zinc plated)
- 5 watts, 4 ohm, 81 dB SPL
- Neodymium magnet
- Anodized aluminum cone, rubber surround

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) | 4 |
| Continuous Power (W) | 5 |
| Sensitivity (dB SPL) ¹ | 81 |
| Frequency Range (Hz) | 140 - 20,000 |
| Resonant Frequency (Fs) (Hz) +/- 15% | 145 |

More Specifications

| | |
|---|--|
| Application | Arcade Gaming, Casino Gaming, Home Audio, Indoor, Outdoor , Voice Communications |
| RoHS Compliant | Yes |
| DC Resistance (Re) (Ω) | 3.7 |
| Program Power (W) | 8 |
| Continuous Power (W) | 5 |

Small Signal Parameters

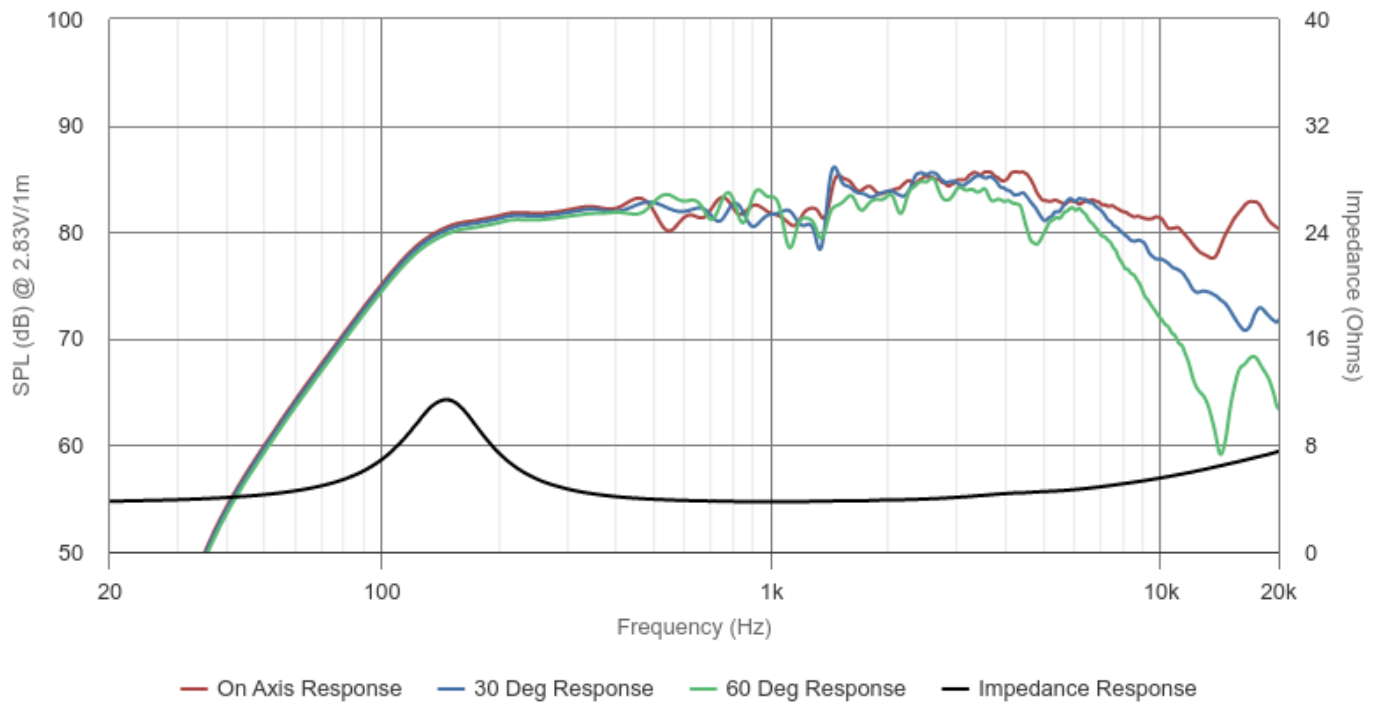
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|--|-------|
| Nominal Impedance (Z) (Ω) | 4 |
| DC Resistance (Re) (Ω) | 3.7 |
| Voice Coil Inductance (Le) (mH) | 0.06 |
| Resonant Frequency (Fs) (Hz) +/- 15% | 145 |
| Mechanical Q Factor (Qms) | 2.05 |
| Electrical Q Factor (Qes) | 0.98 |
| Total Q Factor (Qts) | 0.66 |
| Moving Mass (Mms) (gm) | 1.07 |
| Suspension Compliance (Cms) (mm/N) | 1.12 |
| Mechanical Resistance (Rms) (kg/s) | 0.48 |
| Surface Area of Diaphragm (Sd) (cm²) | 12.57 |
| Compliance Equivalent Volume (Vas) (L) | 0.25 |
| Maximum Linear Excursion (Xmax) (mm) | 0.7 |
| Coil Winding Height (mm) | 3.3 |
| Magnetic Gap Height (mm) | 2.0 |
| Motor Force Factor (BL) (T•M) | 1.9 |
| Efficiency (η_0) (%) | 0.08 |
| Efficiency Bandwidth Product (EBP) (Fs/Qes) | 148.7 |

Material Descriptions

| | |
|-------------------------------|---------------------------|
| Basket Type | Zinc plated stamped steel |
| Terminal Size (mm) | Solder tabs |
| Magnet Material | Neodymium |
| Cone Body Material | Anodized aluminum |
| Cone Surround Material | Rubber |
| Spider Material | Cloth |
| Dust Cap Material | Anodized aluminum |
| Net Weight (kg) | 0.05 |



Frequency & Impedance Response



Highcharts.com

