

A great sealed-back midrange solution as a replacement in old-school 3-way sealed or ported home audio enclosures and PA speakers, as well as high output car audio, that doesn't require a separate enclosure. This model includes a high power ferrite magnet, a black paper composite cone with a vinyl-edge treatment, and a set of polarized terminals for easy installation into a variety of enclosure sizes.

- Sealed-back midrange speaker
- 4" (100 mm) steel basket diameter
- 50W, 8 Ohm, 92 dB SPL
- 12 oz ferrite magnet, paper composite cone
- 1" copper voice coil, Kapton former

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

<b>Size, Nominal (inch &amp; mm)</b>	4" (100 mm)
<b>Rated Impedance (<math>\Omega</math>)</b>	8
<b>Continuous Power (W)</b>	50
<b>Sensitivity (dB SPL) <sup>1</sup></b>	92
<b>Frequency Range (Hz)</b>	330 - 8,000
<b>Resonant Frequency (Fs) (Hz) +/- 15%</b>	528

### More Specifications

<b>Application</b>	Home Audio, Voice Communications
<b>RoHS Compliant</b>	Yes
<b>DC Resistance (Re) (<math>\Omega</math>)</b>	7.22
<b>Program Power (W)</b>	85
<b>Continuous Power (W)</b>	50

### Small Signal Parameters

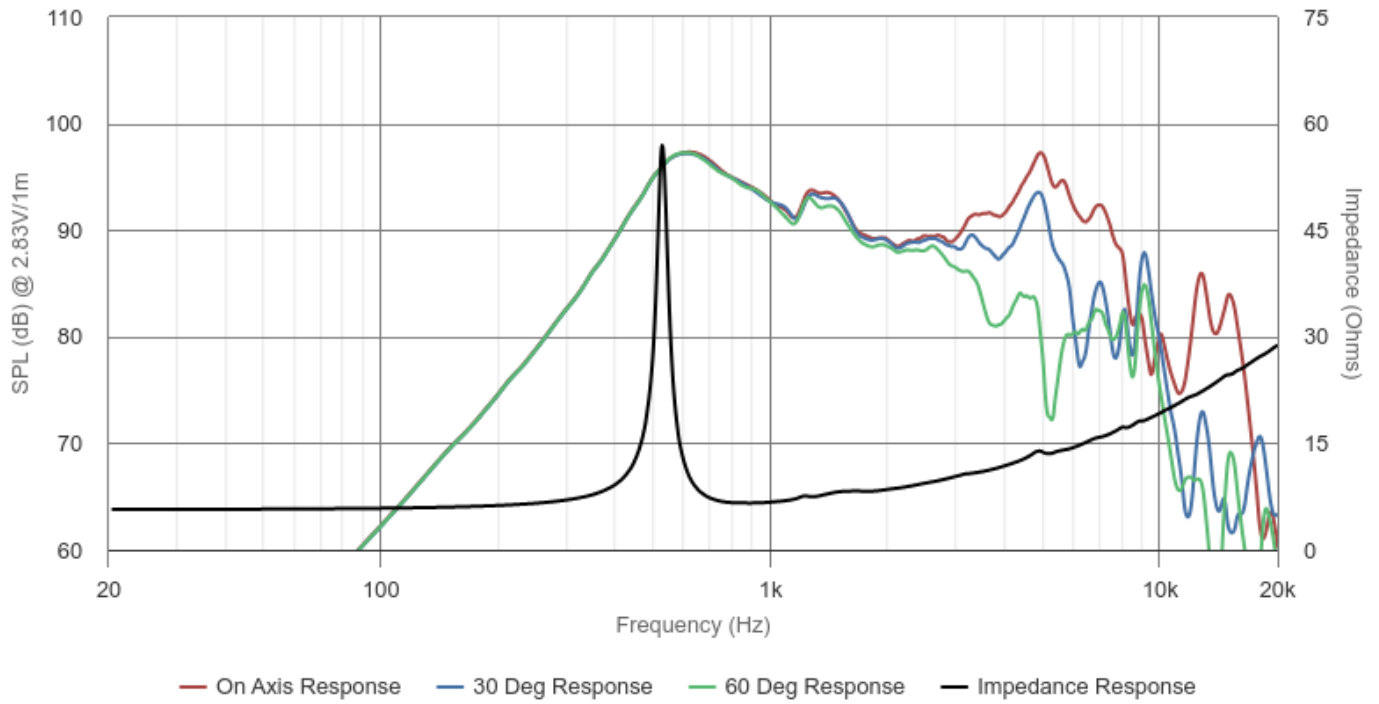
<b>Nominal Impedance (Z) (<math>\Omega</math>)</b>	8
<b>DC Resistance (Re) (<math>\Omega</math>)</b>	7.22
<b>Voice Coil Inductance (Le) (mH)</b>	0.01
<b>Resonant Frequency (Fs) (Hz) +/- 15%</b>	528
<b>Mechanical Q Factor (Qms)</b>	7.68
<b>Electrical Q Factor (Qes)</b>	7.00
<b>Total Q Factor (Qts)</b>	3.67
<b>Moving Mass (Mms) (gm)</b>	1.20
<b>Suspension Compliance (Cms) (mm/N)</b>	0.32
<b>Mechanical Resistance (Rms) (kg/s)</b>	0.25
<b>Surface Area of Diaphragm (Sd) (cm<sup>2</sup>)</b>	18.5
<b>Compliance Equivalent Volume (Vas) (L)</b>	0.16
<b>Motor Force Factor (BL) (T•M)</b>	1.41
<b>Efficiency (<math>\eta_0</math>) (%)</b>	0.04
<b>Efficiency Bandwidth Product (EBP) (Fs/Qes)</b>	75.46

### Material Descriptions

<b>Basket Type</b>	Stamped steel
<b>Terminal Size (mm)</b>	5.2 x 0.5 / 2.8 x 0.5
<b>Voice Coil Diameter (mm)</b>	25.4
<b>Voice Coil Wire Material</b>	Copper
<b>Voice Coil Former Material</b>	Kapton
<b>Magnet Material</b>	Ferrite
<b>Magnet Weight (g)</b>	340.19
<b>Cone Body Material</b>	Paper composite
<b>Spider Material</b>	Cotton
<b>Dust Cap Material</b>	Paper
<b>Net Weight (kg)</b>	0.87



## Frequency & Impedance Response



Highcharts.com