

The 93005 provides an indoor, wide-range sound solution with a rear mounting design 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.

- Wide Range Speaker
- 2.5 inch (66 mm) basket diameter
- 2 watts, 4 ohms, 89 dB SPL
- 0.5 inch copper voice coil
- Ferrite magnet, stamped steel basket
- Paper cone, inverted cloth 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

<b>Size, Nominal (inch &amp; mm)</b>	2" (50 mm)
<b>Rated Impedance (<math>\Omega</math>)</b>	4
<b>Continuous Power (W)</b>	2
<b>Sensitivity (dB SPL) <sup>1</sup></b>	89
<b>Frequency Range (Hz)</b>	140 - 20,000
<b>Resonant Frequency (Fs) (Hz) +/- 15%</b>	341

### More Specifications

<b>Application</b>	Arcade Gaming, Casino Gaming, Voice Communications
<b>RoHS Compliant</b>	Yes
<b>DC Resistance (Re) (<math>\Omega</math>)</b>	3.3
<b>Program Power (W)</b>	4
<b>Continuous Power (W)</b>	2

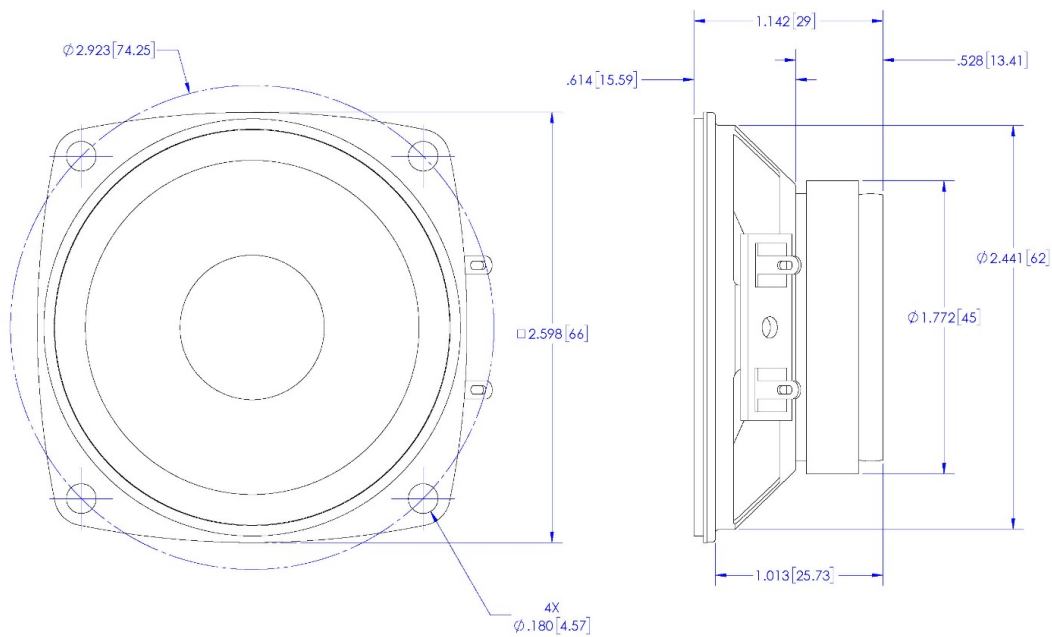
### Small Signal Parameters

<b>Nominal Impedance (Z) (<math>\Omega</math>)</b>	4
<b>DC Resistance (Re) (<math>\Omega</math>)</b>	3.3
<b>Voice Coil Inductance (Le) (mH)</b>	0.07
<b>Resonant Frequency (Fs) (Hz) +/- 15%</b>	341
<b>Mechanical Q Factor (Qms)</b>	8.21
<b>Electrical Q Factor (Qes)</b>	3.33
<b>Total Q Factor (Qts)</b>	2.37
<b>Moving Mass (Mms) (gm)</b>	1.3
<b>Suspension Compliance (Cms) (mm/N)</b>	0.17
<b>Mechanical Resistance (Rms) (kg/s)</b>	0.332
<b>Surface Area of Diaphragm (Sd) (cm<sup>2</sup>)</b>	21.7
<b>Compliance Equivalent Volume (Vas) (L)</b>	0.11
<b>Motor Force Factor (BL) (T•M)</b>	1.7
<b>Efficiency (<math>\eta_0</math>) (%)</b>	0.13
<b>Efficiency Bandwidth Product (EBP) (Fs/Qes)</b>	102.5

### Material Descriptions

<b>Basket Type</b>	Stamped steel
<b>Voice Coil Diameter (mm)</b>	14.5288
<b>Voice Coil Wire Material</b>	Copper
<b>Magnet Material</b>	Ferrite
<b>Magnet Weight (g)</b>	49.04
<b>Cone Body Material</b>	Paper
<b>Net Weight (kg)</b>	0.14





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MODEL: 66-WB04-02

P/N: 93005

REV. A