MODEL #: 100-WF04-01

4 INCH (100 MM) TITANIUM PLATED WOOFER

PART #: 93026

The 93026 is the best woofer for small enclosures that need a high definition midrange, and powerful bass. Use this compact, yet powerful Oaktron driver in a variety of applications, including gaming cabinets, bookshelf audio, and car sound systems.

- Woofer
- 4" (100 mm) basket diameter
- 30 watts, 4 ohms, 87 dB SPL
- 1" copper voice coil, aluminum former
- Ferrite magnet, stamped steel basket
- Electroplated titanium-coated polypropylene cone, rubber surround

Oaktron by MISCO is a premium line of high performance, ready-to-ship transducers and raw speaker 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.

Pair this woofer with one of our MISCO Amplifiers.



Primary Specifications

Size, Nominal (inch & mm)	4" (100 mm)
Rated Impedance (Ω)	4
Continuous Power (W)	30
Sensitivity (dB SPL) [1]	87
Frequency Range (Hz)	60 - 9, 500
Resonant Frequency (Fs) (Hz) +/- 15%	86

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More Specifications

Application	Arcade Gaming, Auto / Motorcycle, Casino Gaming, Home Audio, Indoor, Drive-Thru / Kiosk, Outdoor , Transit
RoHS Compliant	Yes
DC Resistance (Re) (Ω)	3.5
Program Power (W)	60
Continuous Power (W)	30

Small Signal Parameters

Nominal Impedance (Z) (Ω)	4
DC Resistance (Re) (Ω)	3.5
Voice Coil Inductance (Le) (mH)	0.36
Resonant Frequency (Fs) (Hz) +/- 15%	86
Mechanical Q Factor (Qms)	6.21
Electrical Q Factor (Qes)	0.52
Total Q Factor (Qts)	0.48
Moving Mass (Mms) (gm)	8.7
Suspension Compliance (Cms) (mm/N)	0.39
Mechanical Resistance (Rms) (kg/s)	0.76
Surface Area of Diaphragm (Sd) (cm^2)	55.4
Compliance Equivalent Volume (Vas) (L)	1.70
Maximum Linear Excursion (Xmax) (mm)	3.1
Coil Winding Height (mm)	12.2
Magnetic Gap Height (mm)	6.0
Motor Force Factor (BL) (T•M)	5.6
Efficiency (η_0) (%)	0.20
Efficiency Bandwidth Product (EBP) (Fs/Qes)	165.3

Material Descriptions

Basket Type	Stamped steel, black powder coat
Terminal Size (mm)	5.7 x 0.5 mm
Voice Coil Diameter (mm)	25.8
Voice Coil Wire Material	Copper
Voice Coil Former Material	Aluminum
Magnet Material	Ferrite
Magnet Weight (g)	280 (10 oz)

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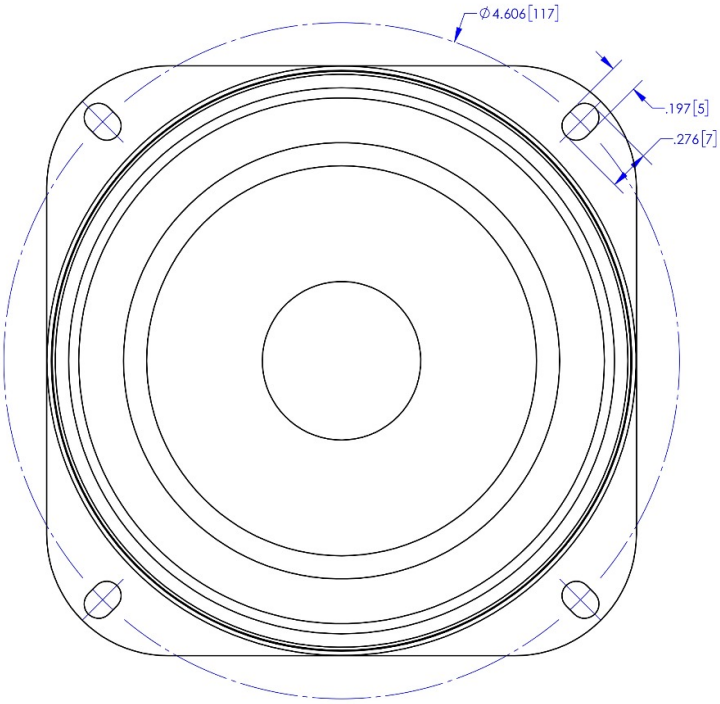
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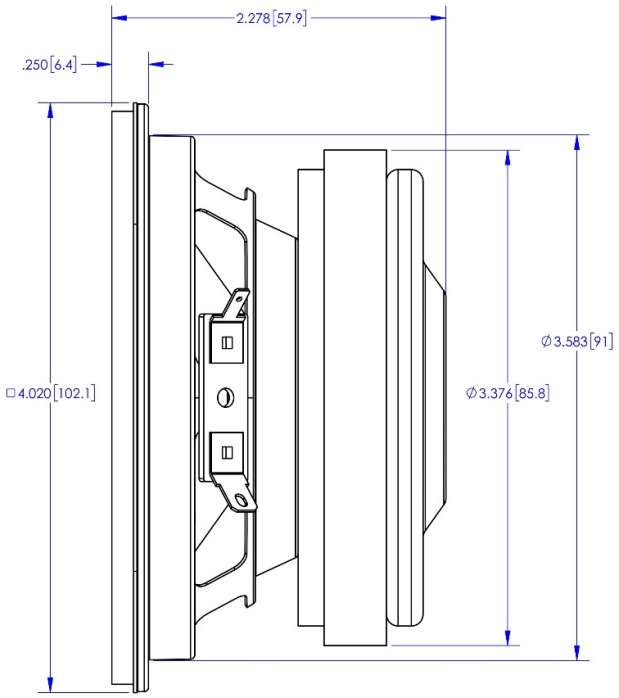
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Cone Body Material	Electroplated titanium coated polypropylene cone
Cone Surround Material	Molded rubber
Spider Material	Cloth
Dust Cap Material	Talc-filled polypropylene
Net Weight (kg)	0.87

1771 Energy Park Drive, Suite 400, St. Paul, Minnesota 55108 U.S.A. • Call: 612-825-1010 • Fax: 612-825-7010 • www.miscospeakers.com
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