MODEL #: 203-WF08-01

8 INCH (203 MM) 7 OHM PREMIUM WOOFER

PART #: 93046

This premium 8" woofer is a gem for two-way systems. At the core of it's design is a unique voice coil which has two 12 ohm voice coils made of CCA wire wound in parallel on the same bobbin for a 7 ohm driver impedance. This design provides a very motor controlled design with excellent transient and reference response. The cone is made of a very rigid carbon filled polypropylene cone which displays a very uniform break-up mode. The spider is made of a flat formed conex spider for linear travel in both directions. The parts are supported by Euro style die cast aluminum basket.

- Woofer
- 8" (203 mm) basket diameter
- 50 watts, 7 ohms, 92 dB SPL
- 1.5" aluminum voice coil, aluminum former
- Ferrite magnet, cast aluminum basket
- Polypropylene cone, natural rubber 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.

Pair this woofer with one of our MISCO Amplifiers.



Primary Specifications

Size, Nominal (inch & mm)	8" (203 mm)
Rated Impedance (Ω)	7
Continuous Power (W)	50
Sensitivity (dB SPL) [1]	92
Frequency Range (Hz)	25 - 6, 000
Resonant Frequency (Fs) (Hz) +/- 15%	34

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More Specifications

Application	High-End Audio and Home Theater, Home Audio
RoHS Compliant	Yes
DC Resistance (Re) (Ω)	6.1
Program Power (W)	100
Continuous Power (W)	50

Small Signal Parameters

Nominal Impedance (Z) (Ω)	7
DC Resistance (Re) (Ω)	6.1
Voice Coil Inductance (Le) (mH)	0.70
Resonant Frequency (Fs) (Hz) +/- 15%	34
Mechanical Q Factor (Qms)	3.22
Electrical Q Factor (Qes)	0.39
Total Q Factor (Qts)	0.35
Moving Mass (Mms) (gm)	23.6
Suspension Compliance (Cms) (mm/N)	0.92
Mechanical Resistance (Rms) (kg/s)	1.57
Surface Area of Diaphragm (Sd) (cm^2)	240.5
Compliance Equivalent Volume (Vas) (L)	75.37
Maximum Linear Excursion (Xmax) (mm)	3.4
Coil Winding Height (mm)	14.8
Magnetic Gap Height (mm)	7.9
Motor Force Factor (BL) (T•M)	8.8
Efficiency (η_0) (%)	0.73
Efficiency Bandwidth Product (EBP) (Fs/Qes)	86.6

Material Descriptions

Basket Type	Cast aluminum, black powder coat finished
Terminal Size (mm)	6.3 x 0.8 mm / 4.7 x 0.5 mm
Voice Coil Diameter (mm)	38.7
Voice Coil Wire Material	Copper clad aluminum
Voice Coil Former Material	Aluminum
Magnet Material	Ferrite
Magnet Weight (g)	566
Cone Body Material	Polypropylene, carbon filled

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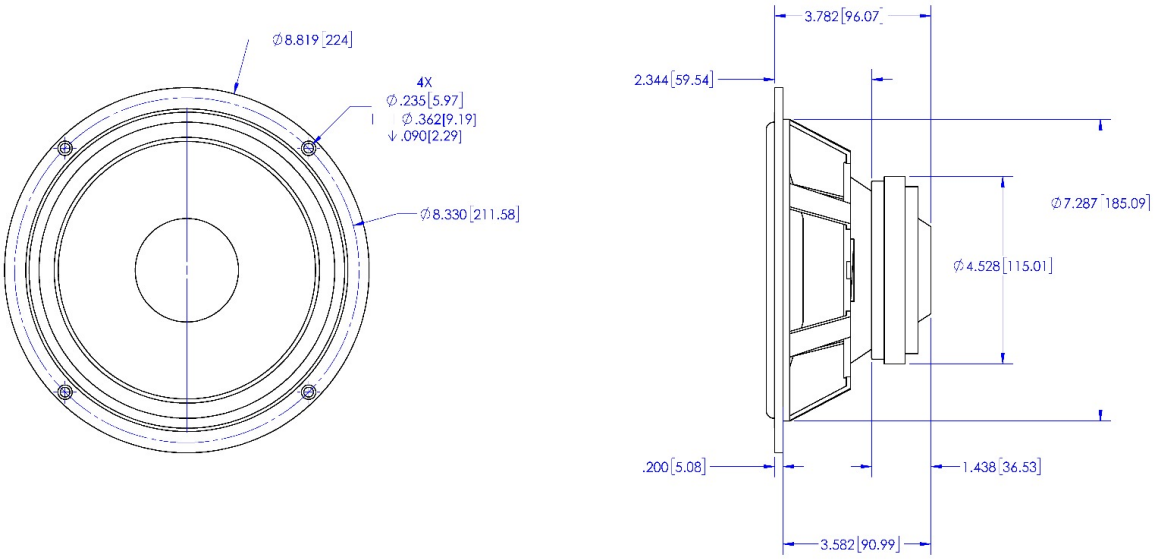
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Cone Surround Material	Natural rubber
Spider Material	Conex
Dust Cap Material	Black, pretreated cloth
Net Weight (kg)	2.35

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