MODEL #: 203-WF08-04

8 INCH (203 MM) 8 OHM, PREMIUM WOOFER/SUBWOOFER

PART #: 93049

This 8 in. woofer/subwoofer creates clear and natural low-end sound for your vehicle or home audio systems, including bookshelf enclosures or high-end home theaters. This unit sports a heavy-duty ferrite magnet, an abacá fiber cone, a double lug, quick connect terminals for series or parallel wiring.

- Woofer/subwoofer
- 8 in. (203 mm) basket diameter
- 100 watts, 8 ohms, 89 dB SPL
- 2 in. copper voice coil, Kapton former
- Ferrite magnet, stamped-steel basket
- Abacá fiber cone, foam 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.

Pair this woofer with one of our MISCO Amplifiers.

Primary Specifications

Size, Nominal (inch & mm)	8" (203 mm)
Rated Impedance (Ω)	8
Continuous Power (W)	100
Sensitivity (dB SPL) [1]	89
Frequency Range (Hz)	20 - 300
Resonant Frequency (Fs) (Hz) +/- 15%	47

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More Specifications

Application	High-End Audio and Home Theater, Home Audio
RoHS Compliant	Yes
DC Resistance (Re) (Ω)	6.2
Program Power (W)	200
Continuous Power (W)	100

Small Signal Parameters

Nominal Impedance (Z) (Ω)	8
DC Resistance (Re) (Ω)	6.2
Voice Coil Inductance (Le) (mH)	2.38
Resonant Frequency (Fs) (Hz) +/- 15%	47
Mechanical Q Factor (Qms)	10.03
Electrical Q Factor (Qes)	0.42
Total Q Factor (Qts)	0.4
Moving Mass (Mms) (gm)	50.7
Suspension Compliance (Cms) (mm/N)	0.23
Mechanical Resistance (Rms) (kg/s)	1.48
Surface Area of Diaphragm (Sd) (cm^2)	198.6
Compliance Equivalent Volume (Vas) (L)	12.77
Maximum Linear Excursion (Xmax) (mm)	5.5
Coil Winding Height (mm)	19.1
Magnetic Gap Height (mm)	8.0
Motor Force Factor (BL) (T•M)	14.8
Efficiency (η_0) (%)	0.3
Efficiency Bandwidth Product (EBP) (Fs/Qes)	112.4

Material Descriptions

Basket Type	Stamped steel
Terminal Size (mm)	4.7 x 0.5 mm
Voice Coil Diameter (mm)	51.31
Voice Coil Wire Material	High temperature copper
Voice Coil Former Material	Kapton
Magnet Material	Ferrite
Magnet Weight (g)	1077.3
Cone Body Material	Abacá fiber

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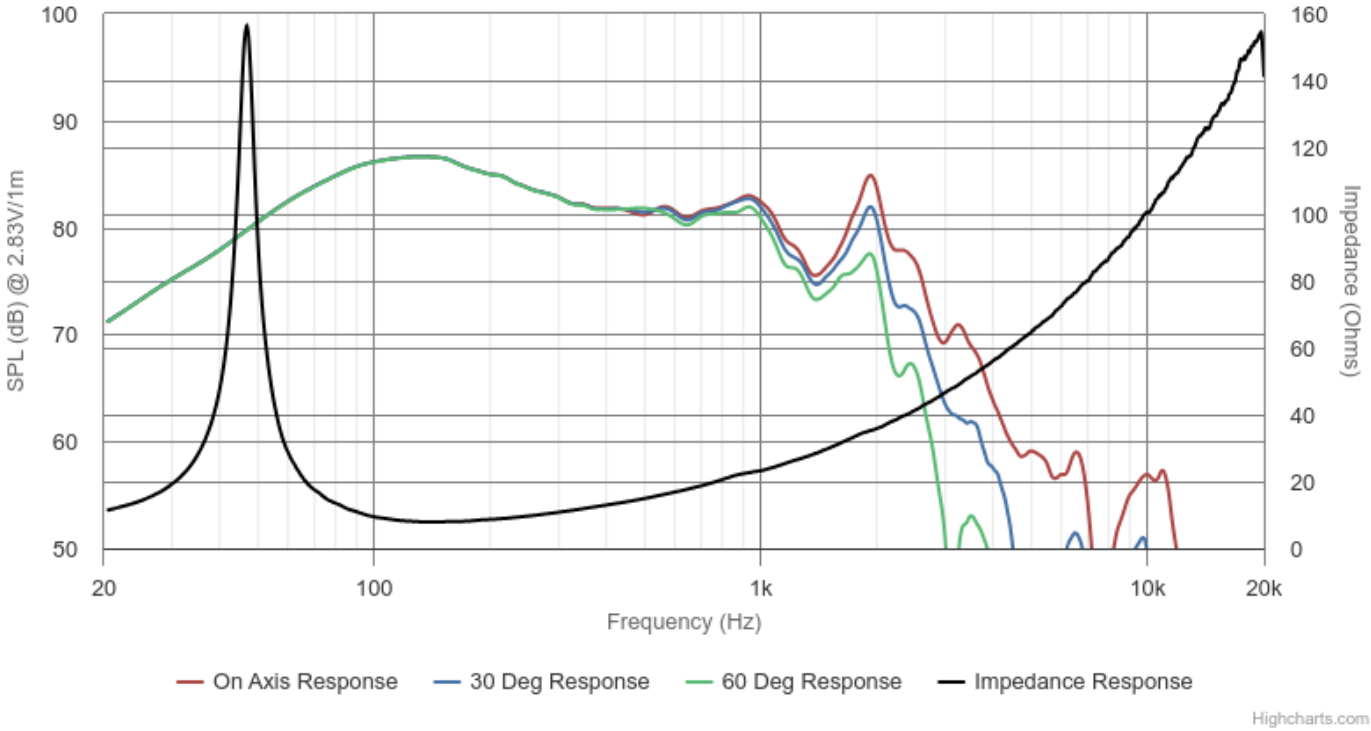
Cone Surround Material	Foam
Spider Material	Cotton
Dust Cap Material	Polypropylene
Net Weight (kg)	3.57

Frequency & Impedance Response



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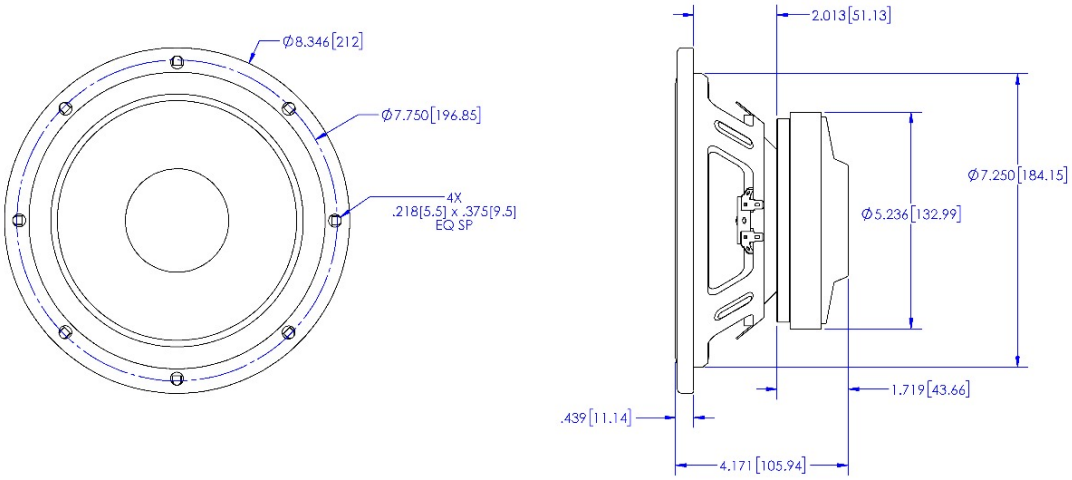

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