MODEL #: 250-WF08-03

10 INCH (250 MM) 8 OHM WOOFER/SUBWOOFER

PART #: 93058

This 200-Watt woofer is the dual magnet, 10-inch "workhorse" woofer. It was designed for a wide variety of systems - subs, three-way or two-way system enclosures. There are many products into which this could be a drop in replacement physically and mechanically. Convenient 8 hole mounting. This speaker is front or rear mountable.



- Woofer / subwoofer
- 10" (250 mm) basket diameter
- 100 watts, 8 ohms, 91 dB SPL
- 2" aluminum voice coil, polyimide film former
- Ferrite magnet, stamped-steel basket
- Polypropylene cone, NBR 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)	10" (250 mm)
Rated Impedance (Ω)	8
Continuous Power (W)	100
Sensitivity (dB SPL) [1]	91
Frequency Range (Hz)	20 - 2, 000
Resonant Frequency (Fs) (Hz) +/- 15%	29

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More Specifications

Application	High-End Audio and Home Theater, Home Audio
RoHS Compliant	No
DC Resistance (Re) (Ω)	7.0
Program Power (W)	200
Continuous Power (W)	100

Small Signal Parameters

Nominal Impedance (Z) (Ω)	8
DC Resistance (Re) (Ω)	7.0
Voice Coil Inductance (Le) (mH)	1.58
Resonant Frequency (Fs) (Hz) +/- 15%	29
Mechanical Q Factor (Qms)	13.68
Electrical Q Factor (Qes)	0.44
Total Q Factor (Qts)	0.43
Moving Mass (Mms) (gm)	45.5
Suspension Compliance (Cms) (mm/N)	0.67
Mechanical Resistance (Rms) (kg/s)	0.60
Surface Area of Diaphragm (Sd) (cm^2)	343.1
Compliance Equivalent Volume (Vas) (L)	111.27
Maximum Linear Excursion (Xmax) (mm)	7.9
Coil Winding Height (mm)	23.6
Magnetic Gap Height (mm)	7.9
Motor Force Factor (BL) (T•M)	11.5
Efficiency (η_0) (%)	0.58
Efficiency Bandwidth Product (EBP) (Fs/Qes)	65.7

Material Descriptions

Basket Type	Stamped Steel, black powder coat finish
Terminal Size (mm)	5.2 x 0.5 mm
Voice Coil Diameter (mm)	51.3
Voice Coil Wire Material	Copper clad aluminum
Voice Coil Former Material	Polyimide film
Magnet Material	Ferrite
Magnet Weight (g)	2166
Cone Body Material	Mica filled polypropylene

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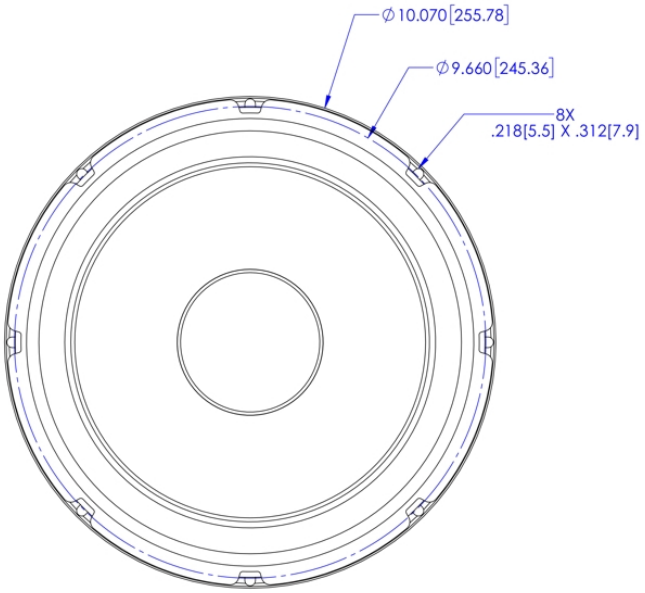
PART #: 93058

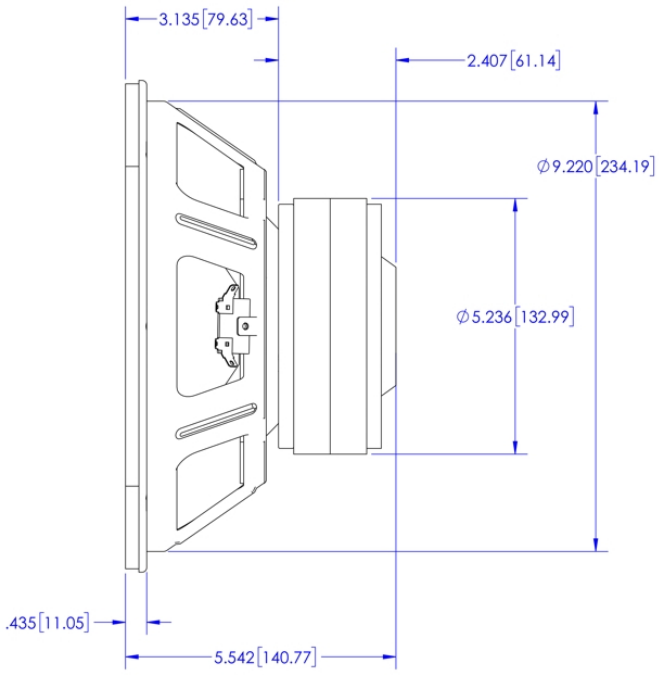
Cone Surround Material	NBR
Spider Material	Conex
Dust Cap Material	Mica filled polypropylene
Net Weight (kg)	4.43



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