MODEL #: 165-WF08-02

6.5 INCH (165 MM) WIDE RANGE, PRO-AUDIO MIDWOOFER

PART #: 93038

The Oaktron 93038 midwoofer is a great addition to pro-audio systems looking to cover a wide frequency band. A high-energy ferrite magnet, a treated and engineered paper cone, and a treated cloth surround with an added edge damper make this driver a must-have for top quality sound.

- Midwoofer
- 6.5" (165 mm) basket diameter
- 50 watts, 8 ohms, 91 dB SPL
- 1.5" copper voice coil, nomex former
- Ferrite magnet, stamped-steel basket
- Engineered paper cone, treated cloth 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)	6" (152 mm)
Rated Impedance (Ω)	8
Continuous Power (W)	50
Sensitivity (dB SPL) [1]	91
Frequency Range (Hz)	100 - 5, 000
Resonant Frequency (Fs) (Hz) +/- 15%	42

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More Specifications

Application	Home Audio, Pro Sound
RoHS Compliant	No
DC Resistance (Re) (Ω)	6.7
Program Power (W)	100
Continuous Power (W)	50

Small Signal Parameters

Nominal Impedance (Z) (Ω)	8
DC Resistance (Re) (Ω)	6.7
Voice Coil Inductance (Le) (mH)	0.72
Resonant Frequency (Fs) (Hz) +/- 15%	42
Mechanical Q Factor (Qms)	7.86
Electrical Q Factor (Qes)	0.43
Total Q Factor (Qts)	0.41
Moving Mass (Mms) (gm)	10.7
Suspension Compliance (Cms) (mm/N)	1.38
Mechanical Resistance (Rms) (kg/s)	0.35
Surface Area of Diaphragm (Sd) (cm^2)	151.8
Compliance Equivalent Volume (Vas) (L)	44.82
Maximum Linear Excursion (Xmax) (mm)	3.5
Coil Winding Height (mm)	13.3
Magnetic Gap Height (mm)	6.4
Motor Force Factor (BL) (T•M)	6.6
Efficiency (η_0) (%)	0.71
Efficiency Bandwidth Product (EBP) (Fs/Qes)	96.1

Material Descriptions

Basket Type	Stamped steel with black powder coat
Terminal Size (mm)	5.2 X 0.5 mm
Voice Coil Diameter (mm)	38.7
Voice Coil Wire Material	Copper
Voice Coil Former Material	Nomex
Magnet Material	Ferrite
Magnet Weight (g)	568
Cone Body Material	Engineered paper cone, treated

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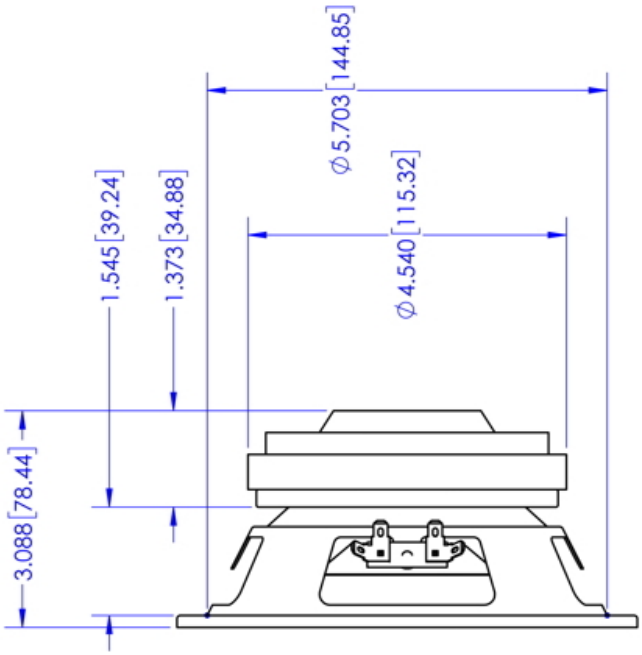
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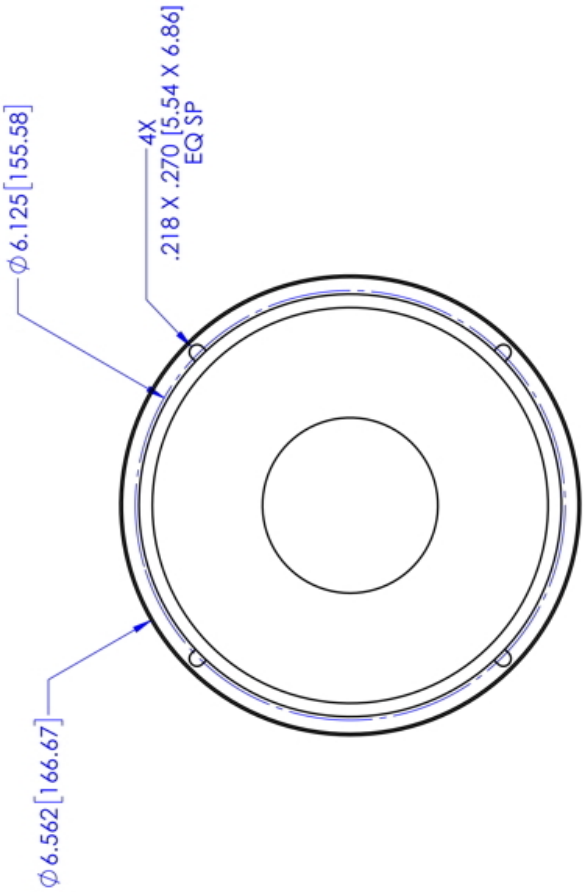
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Cone Surround Material	Treated cloth with added edge damper
Spider Material	Flat formed cloth
Dust Cap Material	Treated paper dome
Net Weight (kg)	1.93

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