MODEL #: 150X229-FR08-01

6 INCH X 9 INCH DOUBLE MAGNET, FULL RANGE SPEAKER WITH WHIZZER

PART #: 93093

The 93093 full range speaker combines a classic design with modern ingenuity ideal for car audio, line arrays, voice communications, and more. Increase your sound system's high frequency dispersion with this driver's whizzer cone attached to the dust cap.

- Full range speaker
- 6" x 9" (150 mm x 229 mm) diameter basket
- 35 watts, 8 ohms, 93 dB SPL
- 1" copper voice coil, aluminum former
- Stamped steel basket, ferrite magnet
- 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.

Primary Specifications

Size, Nominal (inch & mm)	6" Oval (152 mm)
Rated Impedance (Ω)	8
Continuous Power (W)	35
Sensitivity (dB SPL) [1]	93
Frequency Range (Hz)	40 - 15, 000
Resonant Frequency (Fs) (Hz) +/- 15%	61

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More Specifications

Application	Arcade Gaming, Auto / Motorcycle, Home Audio, Indoor, Musical Instruments, Pro Sound, Transit, Voice Communications
RoHS Compliant	Yes
DC Resistance (Re) (Ω)	7.7
Program Power (W)	70
Continuous Power (W)	35

Small Signal Parameters

Nominal Impedance (Z) (Ω)	8
DC Resistance (Re) (Ω)	7.7
Voice Coil Inductance (Le) (mH)	0.42
Resonant Frequency (Fs) (Hz) +/- 15%	61
Mechanical Q Factor (Qms)	2.80
Electrical Q Factor (Qes)	0.75
Total Q Factor (Qts)	0.59
Moving Mass (Mms) (gm)	10.9
Suspension Compliance (Cms) (mm/N)	0.62
Mechanical Resistance (Rms) (kg/s)	1.49
Surface Area of Diaphragm (Sd) (cm^2)	199.9
Compliance Equivalent Volume (Vas) (L)	35.17
Maximum Linear Excursion (Xmax) (mm)	1.3
Coil Winding Height (mm)	7.1
Magnetic Gap Height (mm)	4.5
Motor Force Factor (BL) (T•M)	6.5
Efficiency (η_0) (%)	1.03
Efficiency Bandwidth Product (EBP) (Fs/Qes)	81.5

Material Descriptions

Basket Type	Stamped steel with black powder coat
Terminal Size (mm)	5.2 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)	560

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Cone Body Material	Engineered paper fiber
Cone Surround Material	Corrugated treated cloth
Spider Material	Cotton
Dust Cap Material	Paper high frequency dual cone
Net Weight (kg)	1.3

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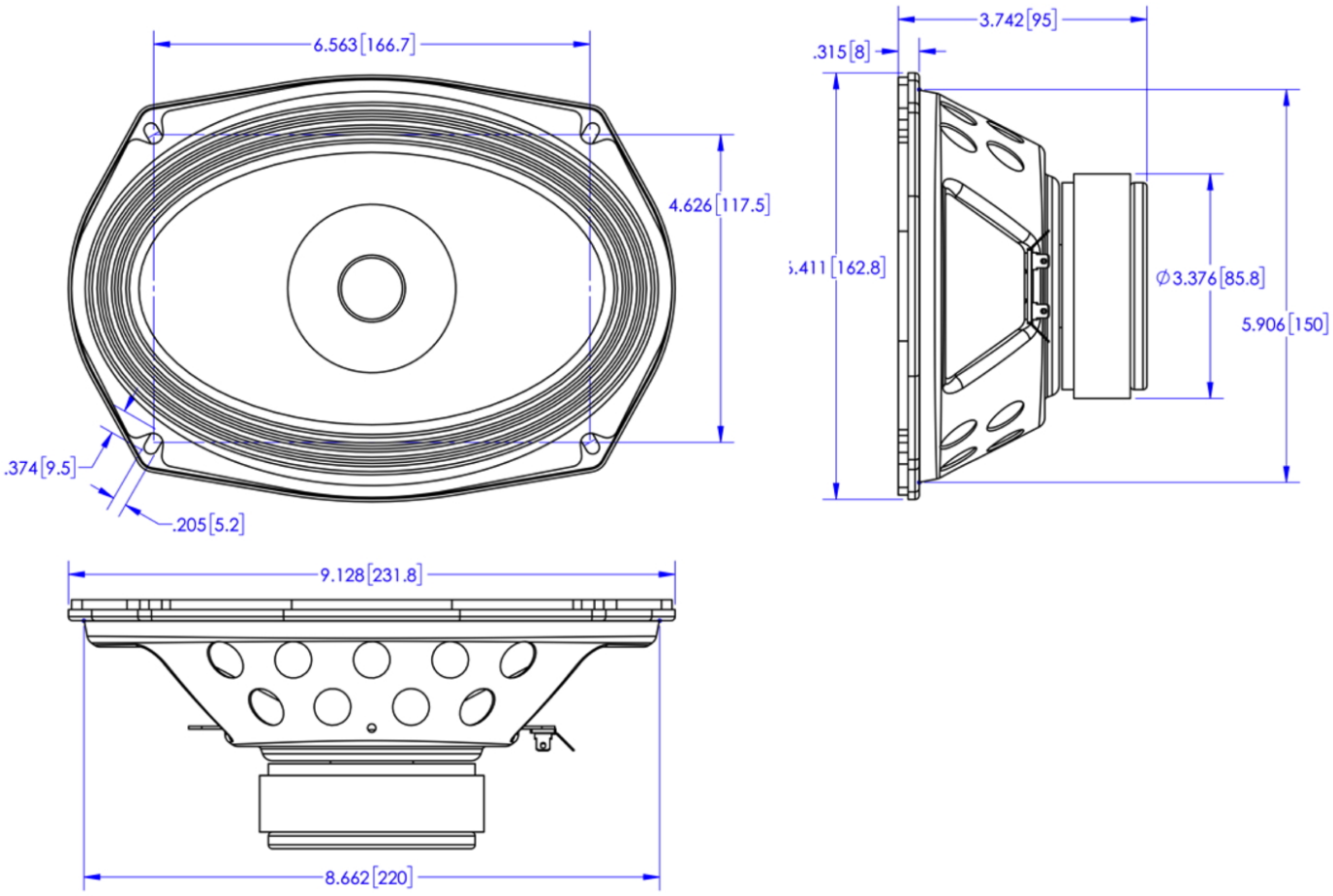

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