MODEL #: 114-WB08-01

4.5 INCH (114 MM) WIDE BAND / MIDRANGE SPEAKER

PART #: 93076

This versatile 4.5" speaker provides broad band frequency response from 80 - 13,000 Hz. The cone is carefully engineered from a proprietary paper stock to be both still and lightweight. The cone surround is treated cloth providing compliance and alignment. The voice coil is made of copper clad aluminum wire to provided extended response. It has a powerful 12 oz ferrite magnet with a vented pole for excellent thermal management.

- Wide band / midrange speaker
- 4.5" (114 mm) basket diameter
- 40 watts, 8 ohm, 92 dB SPL
- 1" aluminum voice cloil, polyimide film former
- Ferrite magnet, stamped steel basket
- Engineered paper cone, treated cloth surround

MISCO engineers test and analyze the performance of these speakers, using world's most loudspeaker measurement systems including Klippel Analyzer and 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)	4" (100 mm)
Rated Impedance (Ω)	8
Continuous Power (W)	40
Sensitivity (dB SPL) [1]	92
Frequency Range (Hz)	80 - 15, 000
Resonant Frequency (Fs) (Hz) +/- 15%	101

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More Specifications

Application	Arcade Gaming, Auto / Motorcycle, Home Audio, Indoor, Musical Instruments, Pro Sound
RoHS Compliant	Yes
DC Resistance (Re) (Ω)	6.1
Program Power (W)	80
Continuous Power (W)	40

Small Signal Parameters

Nominal Impedance (Z) (Ω)	8
DC Resistance (Re) (Ω)	6.1
Voice Coil Inductance (Le) (mH)	0.29
Resonant Frequency (Fs) (Hz) +/- 15%	101
Mechanical Q Factor (Qms)	5.26
Electrical Q Factor (Qes)	0.57
Total Q Factor (Qts)	0.51
Moving Mass (Mms) (gm)	4.3
Suspension Compliance (Cms) (mm/N)	0.58
Mechanical Resistance (Rms) (kg/s)	0.52
Surface Area of Diaphragm (Sd) (cm^2)	73.9
Compliance Equivalent Volume (Vas) (L)	4.47
Maximum Linear Excursion (Xmax) (mm)	2.0
Coil Winding Height (mm)	9.9
Magnetic Gap Height (mm)	6.0
Motor Force Factor (BL) (T•M)	5.4
Efficiency (η_0) (%)	0.77
Efficiency Bandwidth Product (EBP) (Fs/Qes)	176.6

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	Aluminum
Voice Coil Former Material	Polyimide film
Magnet Material	Ferrite
Magnet Weight (g)	336

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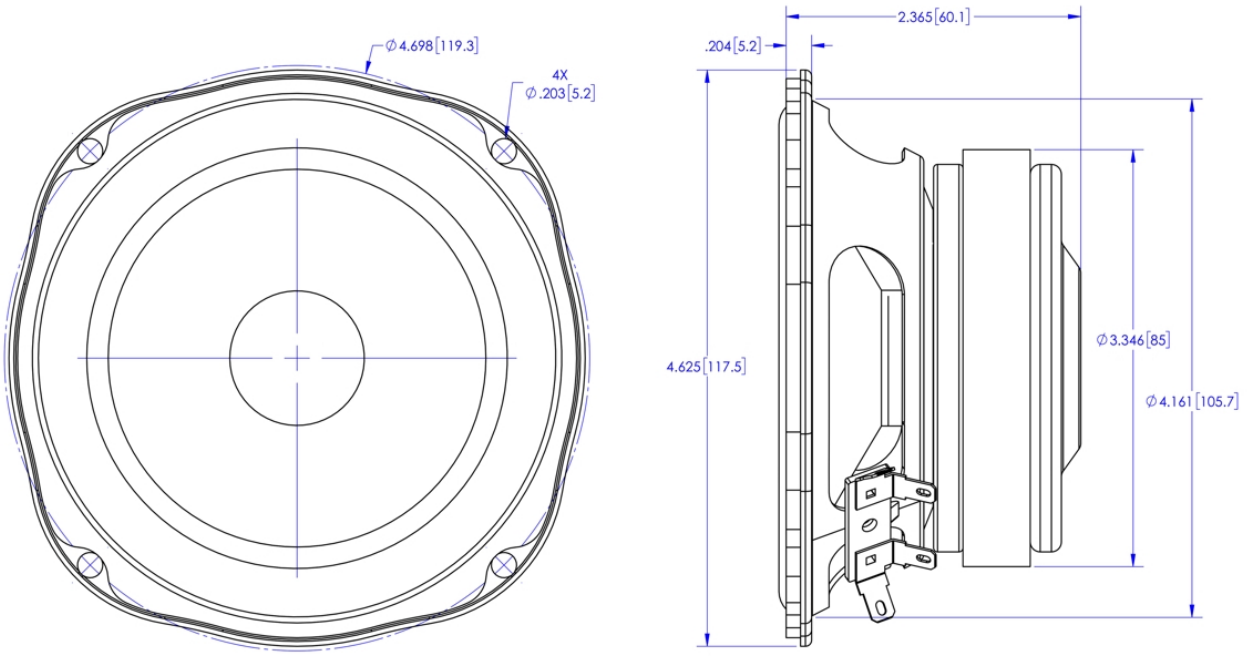
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Cone Body Material	Engineered paper with treat
Cone Surround Material	Half roll, pre-treated cloth
Spider Material	Cloth
Dust Cap Material	Engineered paper with treat
Net Weight (kg)	0.94

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