MODEL #: 100-MR08-01

4 INCH (100 MM) 8 OHM SEALED-BACK MIDRANGE SPEAKER

PART #: 93024

A great sealed-back midrange solution as a replacement in old-school 3-way sealed or ported home audio enclosures and PA speakers, as well as high output car audio, that doesn't require a seperate enclosure. This model includes a high power ferrite magnet, a black paper composite cone with a vinyl-edge treatment, and a set of polarized terminals for easy installation into a variety of enclosure sizes.

- Sealed-back midrange speaker
- 4" (100 mm) steel basket diameter
- 50W, 8 Ohm, 92 dB SPL
- 12 oz ferrite magnet, paper composite cone
- 1" copper voice coil, Kapton former

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)	4" (100 mm)
Rated Impedance (Ω)	8
Continuous Power (W)	50
Sensitivity (dB SPL) [1]	92
Frequency Range (Hz)	330 - 8, 000
Resonant Frequency (Fs) (Hz) +/- 15%	528

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More Specifications

Application	Home Audio, Voice Communications
RoHS Compliant	Yes
DC Resistance (Re) (Ω)	7.22
Program Power (W)	85
Continuous Power (W)	50

Small Signal Parameters

Nominal Impedance (Z) (Ω)	8
DC Resistance (Re) (Ω)	7.22
Voice Coil Inductance (Le) (mH)	0.01
Resonant Frequency (Fs) (Hz) +/- 15%	528
Mechanical Q Factor (Qms)	7.68
Electrical Q Factor (Qes)	7.00
Total Q Factor (Qts)	3.67
Moving Mass (Mms) (gm)	1.20
Suspension Compliance (Cms) (mm/N)	0.32
Mechanical Resistance (Rms) (kg/s)	0.25
Surface Area of Diaphragm (Sd) (cm^2)	18.5
Compliance Equivalent Volume (Vas) (L)	0.16
Motor Force Factor (BL) (T•M)	1.41
Efficiency (η_0) (%)	0.04
Efficiency Bandwidth Product (EBP) (Fs/Qes)	75.46

Material Descriptions

Basket Type	Stamped steel
Terminal Size (mm)	5.2 x 0.5 / 2.8 x 0.5
Voice Coil Diameter (mm)	25.4
Voice Coil Wire Material	Copper
Voice Coil Former Material	Kapton
Magnet Material	Ferrite
Magnet Weight (g)	340.19
Cone Body Material	Paper composite
Spider Material	Cotton
Dust Cap Material	Paper
Net Weight (kg)	0.87

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