MODEL #: 70053

1.2 INCH X 2.8 INCH (30 MM X 70 MM) OVAL SHAPED, WIDE RANGE SPEAKER

PART #: 93010

Choose the 93010 for an ultra-compact, wide-range sound to fit into your indoor sound systems. This driver allows for drop-in functionality in kiosks, signal and alarm systems, and electronic panel racks. Produce top-quality frequencies across a wide band, giving your listeners the desired sound.

- Wide range speaker
- 1.2 inch x 3 inch (30 mm x 70 mm) basket diameter
- 5 watts, 8 ohms, 83 dB SPL
- 0.5 in. copper voice coil, Kapton former
- Neodymium magnet, stamped steel basket
- Paper cone, cloth surround
- Quick connect terminals

Oaktron by MISCO is a premium line of high-performance, ready-to-ship transducers and drivers for various applications, including high fidelity, arcade and casino games, automotive, aerospace, and many more. From elegantly simple to highly specialized designs for unique and demanding applications, an Oaktron loudspeaker perfectly suits your needs.

MISCO engineers use the world's most sophisticated loudspeaker measurement systems, including the Klippel Analyzer, to maximize and confirm the speaker's design and the Klippel QC module to ensure perfect unit-to-unit consistency and reliability.

Primary Specifications

Size, Nominal (inch & mm)	1" Oval (25 mm)
Rated Impedance (Ω)	8
Continuous Power (W)	5
Sensitivity (dB SPL) [1]	83
Frequency Range (Hz)	592 - 8, 000
Resonant Frequency (Fs) (Hz) +/- 15%	592

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More Specifications

Application	Drive-Thru / Kiosk, Indoor, Voice Communications
RoHS Compliant	Yes
DC Resistance (Re) (Ω)	7.3
Program Power (W)	10
Continuous Power (W)	5

Small Signal Parameters

Nominal Impedance (Z) (Ω)	8
DC Resistance (Re) (Ω)	7.3
Voice Coil Inductance (Le) (mH)	0.08
Resonant Frequency (Fs) (Hz) +/- 15%	592
Mechanical Q Factor (Qms)	5.55
Electrical Q Factor (Qes)	7.59
Total Q Factor (Qts)	3.21
Moving Mass (Mms) (gm)	0.6
Suspension Compliance (Cms) (mm/N)	0.115
Mechanical Resistance (Rms) (kg/s)	0.42
Surface Area of Diaphragm (Sd) (cm^2)	12.2
Compliance Equivalent Volume (Vas) (L)	0.02
Maximum Linear Excursion (Xmax) (mm)	0.6
Coil Winding Height (mm)	3.2
Magnetic Gap Height (mm)	2
Motor Force Factor (BL) (T•M)	1.5
Efficiency (η_0) (%)	0.06
Efficiency Bandwidth Product (EBP) (Fs/Qes)	78.0

Material Descriptions

Basket Type	Stamped steel
Terminal Size (mm)	2.8 x 0.5
Voice Coil Diameter (mm)	13.3
Voice Coil Wire Material	High temperature copper
Voice Coil Former Material	Kapton
Magnet Material	Neodymium
Cone Body Material	Engineered paper
Cone Surround Material	Treated cloth

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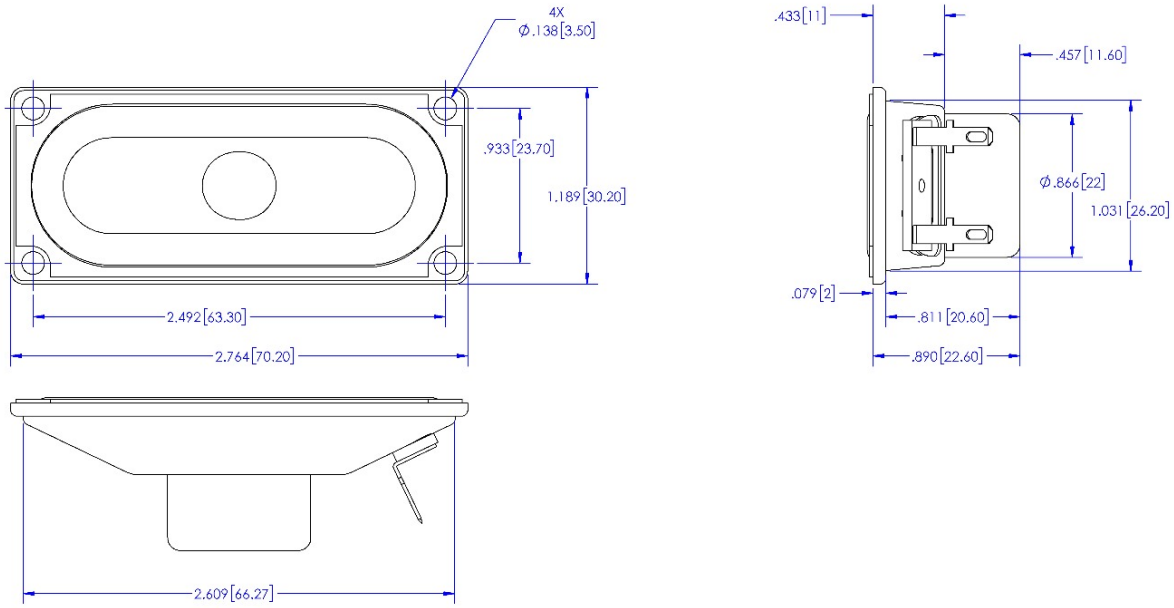
Spider Material	Cloth
Dust Cap Material	Paper
Net Weight (kg)	0.04



MODEL: 30X70-WB08-01 **P/N: 93010** **REV. A**