MODEL #: 100-WB04-01

4 INCH (102 MM) 4 OHM, WIDE RANGE SPEAKER

PART #: 93074

For a rugged and durable outdoor audio solution, choose the 93074. This 4” wide range speaker is great for applications requiring reliability and consistency for all outdoor communications. The 93074 works between -40°F to 131°F (-40°C to 55°C), using a UV resistant poly cone and a high compliance cloth surround to maintain intelligibility across all climates. Add a subwoofer for full range of sound to bring your audio communications up to the next level.

- Wide range speaker
- 4" (102 mm) steel basket with black powder coat finish
- 4 ohms, 24 watts, 88 dB SPL
- -40°F to 131°F (-40°C to 55°C) temperature range
- High temperature copper voice coil, Kapton former
- UV resistant polypropylene cone, cloth surround

Oaktron by MISCO is the premium line of high performance, ready-to-ship transducers and drivers for a wide variety of 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, there is an Oaktron loudspeaker perfectly suited for your needs.

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



Primary Specifications

Size, Nominal (inch & mm)	4" (100 mm)
Rated Impedance (Ω)	4
Continuous Power (W)	24
Sensitivity (dB SPL) [1]	88
Frequency Range (Hz)	100 - 10, 000
Resonant Frequency (Fs) (Hz) +/- 15%	144

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More Specifications

Application	Auto / Motorcycle, Transit, Voice Communications
RoHS Compliant	Yes
DC Resistance (Re) (Ω)	3.1
Program Power (W)	48
Continuous Power (W)	24

Small Signal Parameters

Nominal Impedance (Z) (Ω)	4
DC Resistance (Re) (Ω)	3.1
Voice Coil Inductance (Le) (mH)	0.15
Resonant Frequency (Fs) (Hz) +/- 15%	144
Mechanical Q Factor (Qms)	4.30
Electrical Q Factor (Qes)	1.32
Total Q Factor (Qts)	1.01
Moving Mass (Mms) (gm)	4.17
Suspension Compliance (Cms) (mm/N)	0.29
Mechanical Resistance (Rms) (kg/s)	0.88
Surface Area of Diaphragm (Sd) (cm^2)	61.51
Compliance Equivalent Volume (Vas) (L)	1.57
Coil Winding Height (mm)	0.2
Magnetic Gap Height (mm)	0.2
Motor Force Factor (BL) (T•M)	3.0
Efficiency (η_0) (%)	0.34
Efficiency Bandwidth Product (EBP) (Fs/Qes)	108.76

Material Descriptions

Basket Type	Stamped steel
Terminal Size (mm)	6.4 x 0.8 / 4.7 x 0.5
Voice Coil Diameter (mm)	19.38
Voice Coil Wire Material	Copper
Voice Coil Former Material	Kapton
Magnet Material	Ferrite
Magnet Weight (g)	136.08
Cone Body Material	Polypropylene
Cone Surround Material	Cloth

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Dust Cap Material	Polypropylene
Net Weight (kg)	0.46





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