2 INCH (50 MM) 4 OHM, FULL RANGE SPEAKER

PART #: 50RN04-1

The MISCO 2-inch full-range OEM speaker is a testament to our commitment to audio excellence. This compact yet powerful driver is tailored for demanding applications, from the precise requirements of medical device alerts to the robust needs of aerospace communication.

This speaker features a meticulously crafted paper cone and treated cloth surround, driven by a potent 1.8 Oz. Neodymium magnet, all encased in a solid steel basket. It is optimized for tight spaces, promising a dynamic audio experience across diverse frequency bands. With every unit rigorously tested for perfection, this speaker embodies MISCO's promise of reliability and superior performance.

- Compact yet powerful speaker for demanding applications
- Meticulously crafted paper cones and treated cloth surround
- Driven by a potent 1.8 Oz. Neodymium magnet
- Solid steel basket for durability
- Optimized for tight spaces and diverse frequency bands
- Rigorously tested for perfection and reliability

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)	2" (50 mm)
Rated Impedance (Ω)	4
Sensitivity (dB SPL) [1]	86
Frequency Range (Hz)	220 - 20, 000
Resonant Frequency (Fs) (Hz) +/- 15%	220

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More Specifications

Application	Medical
RoHS Compliant	Yes
DC Resistance (Re) (Ω)	3.6
Program Power (W)	10

Small Signal Parameters

Nominal Impedance (Z) (Ω)	4
DC Resistance (Re) (Ω)	3.6
Resonant Frequency (Fs) (Hz) +/- 15%	220
Mechanical Q Factor (Qms)	3.5
Electrical Q Factor (Qes)	2.1
Total Q Factor (Qts)	1.30

Material Descriptions

Basket Type	Stamped steel
Terminal Size (mm)	2.8 x 0.5
Voice Coil Diameter (mm)	15.2
Voice Coil Wire Material	Copper
Voice Coil Former Material	Paper
Magnet Material	Neodymium
Magnet Weight (g)	50
Cone Body Material	Paper
Cone Surround Material	Pre-treated black cloth
Dust Cap Material	Paper
Net Weight (kg)	0.04





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