MODEL #: 31-FR08-01

1 INCH (31 MM), 8 OHM WIDE RANGE SPEAKER

PART #: 93126

A compact one-inch, bottle-cap-sized driver for voice communication and small radio applications. This model's neodymium magnet and black anodized aluminum cone create a clear, high-power sound without extra ringing. For tight-fitting applications, this speaker has a set of mounting holes to simplify and secure installation into cabinets, enclosures, and sound systems alike.

- Wide range speaker
- 1.2 inch (31 mm) basket diameter
- 3 watts, 8 ohm, 76 dB SPL
- 0.7 inch copper voice coil, paper former
- Neodymium magnet, stamped steel basket
- Anodized aluminum cone, NBR rubber surround



Primary Specifications

Size, Nominal (inch & mm)	1" (25 mm)
Rated Impedance (Ω)	8
Continuous Power (W)	3
Sensitivity (dB SPL) [1]	76
Frequency Range (Hz)	180 - 20, 000
Resonant Frequency (Fs) (Hz) +/- 15%	180

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More Specifications

Application	Indoor, Voice Communications
RoHS Compliant	Yes
DC Resistance (Re) (Ω)	7.54
Program Power (W)	6
Continuous Power (W)	3

Small Signal Parameters

Nominal Impedance (Z) (Ω)	8
DC Resistance (Re) (Ω)	7.54
Voice Coil Inductance (Le) (mH)	0.14
Resonant Frequency (Fs) (Hz) +/- 15%	180
Mechanical Q Factor (Qms)	1.07
Electrical Q Factor (Qes)	0.95
Total Q Factor (Qts)	0.50
Moving Mass (Mms) (gm)	0.6
Suspension Compliance (Cms) (mm/N)	1.0
Mechanical Resistance (Rms) (kg/s)	0.72
Surface Area of Diaphragm (Sd) (cm^2)	4.91
Compliance Equivalent Volume (Vas) (L)	0.03
Motor Force Factor (BL) (T•M)	2.48
Efficiency (η_0) (%)	0.03
Efficiency Bandwidth Product (EBP) (Fs/Qes)	189.9

Material Descriptions

Basket Type	Stamped Steel with Zinc Plating
Terminal Size (mm)	3.6 x 0.5
Voice Coil Diameter (mm)	17.8
Voice Coil Wire Material	Copper
Voice Coil Former Material	Paper
Magnet Material	Neodymium
Magnet Weight (g)	8.22
Cone Body Material	Black anodized aluminum
Cone Surround Material	NBR rubber
Dust Cap Material	Aluminum
Net Weight (kg)	0.03

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