MODEL #: 165-CX08-01

6.5 INCH (165 MM) 4 OHM COAXIAL SPEAKER

PART #: 93082

The 93082 is a 6.5” 4 ohm, coaxial speaker mounted with a 1” mylar tweeter set with an 8.4 kHz 1st order crossover. The precision design of this extended range driver allows for optimal sound production in either sealed or vented enclosures, and a Santoprene surround gives longer life to sound systems in hot and cold environments. Ideal for installing in distributed music ceiling systems, or vehicle systems looking for high-power audio and a smooth crossover.

- Extended voice and music speaker
- 6.5" (165 mm) steel basket diameter
- 25 watt, 4 ohm, 90 dB SPL
- 1" copper voice coil, Kapton former
- Mylar tweeter, coaxially mounted
- Polypropylene cone, ferrite magnet

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 confirm the final design.



Primary Specifications

Size, Nominal (inch & mm)	6" (152 mm)
Rated Impedance (Ω)	4
Sensitivity (dB SPL) [1]	90
Frequency Range (Hz)	35 - 20, 000
Resonant Frequency (Fs) (Hz) +/- 15%	77

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More Specifications

Application	Voice Communications
RoHS Compliant	Yes
DC Resistance (Re) (Ω)	3.4
Program Power (W)	50

Small Signal Parameters

Nominal Impedance (Z) (Ω)	4
DC Resistance (Re) (Ω)	3.4
Voice Coil Inductance (Le) (mH)	0.29
Resonant Frequency (Fs) (Hz) +/- 15%	77
Mechanical Q Factor (Qms)	9.03
Electrical Q Factor (Qes)	1.05
Total Q Factor (Qts)	0.94

Material Descriptions

Basket Type	Stamped steel
Terminal Size (mm)	2.8 x 0.5
Voice Coil Diameter (mm)	25.781
Voice Coil Wire Material	High temperature copper
Voice Coil Former Material	Kapton
Magnet Material	Ferrite
Magnet Weight (g)	340.2
Cone Body Material	Polypropylene
Cone Surround Material	Santoprene rubber
Dust Cap Material	Felt
Net Weight (kg)	1.14





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