6 INCH (156 MM), 8 OHM SPEAKER WITH 70 VOLT TRANSFORMER

PART #: N9870-1

This 6”, 70 volt voice and paging speaker is a designed specifically for rail car applications. A customized terminal board allows for 1/4" quick connects to attach the audio cable to any one of 4 power taps: 4 watts, 2 watts, 1 watt and 0.5 watt. The dual cone design improves upper-band frequencies to enhance off-axis sound pressure and broad dispersion.

- Full range transit speaker
- 6" (156 mm) steel basket diameter
- 12 watts, 8 ohms, 94 dB SPL
- 70 volt transformer, 7-pronged terminal board
- 0.8" copper voice coil, aluminum former
- Felted paper cone, paper surround
- Ferrite magnet



Primary Specifications

Size, Nominal (inch & mm)	6" (152 mm)
Rated Impedance (Ω)	8
Sensitivity (dB SPL) [1]	94
Frequency Range (Hz)	70 - 16, 000
Resonant Frequency (Fs) (Hz) +/- 15%	109

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More Specifications

Application	Indoor, Transit
RoHS Compliant	No
DC Resistance (Re) (Ω)	8
Program Power (W)	24

Small Signal Parameters

Nominal Impedance (Z) (Ω)	8
DC Resistance (Re) (Ω)	8
Resonant Frequency (Fs) (Hz) +/- 15%	109
Mechanical Q Factor (Qms)	4.7
Electrical Q Factor (Qes)	1.5
Total Q Factor (Qts)	1.10

Material Descriptions

Basket Type	Stamped steel
Terminal Size (mm)	6.35 x 0.76
Voice Coil Diameter (mm)	20.3
Voice Coil Wire Material	Copper
Voice Coil Former Material	Aluminum
Magnet Material	Ferrite
Magnet Weight (g)	136
Cone Body Material	Felted paper
Cone Surround Material	Paper
Dust Cap Material	Paper
Net Weight (kg)	0.73



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