MODEL #: OK83

8 INCH (203 MM), 8 OHM COAXIAL SPEAKER WITH 3" TWEETER

PART #: 93121

The OK83 is a high performacnce coaxial speaker with a mounted tweeter for full-range sound. Audio from this model achieves high dispersion within higher frequencies for speech and music—a perfect choice for paging systems, public communications, and background music applications.

- Coaxial speaker
- 8" (203 mm) stamped steel basket
- 3" (77 mm) tweeter
- 20 watts, 8 ohm, 97 dB SPL
- 1" copper voice coil, aluminum former
- Paper cone, ferrite magnet



Primary Specifications

Size, Nominal (inch & mm)	8" (203 mm)
Rated Impedance (Ω)	8
Continuous Power (W)	20
Sensitivity (dB SPL) [1]	97
Frequency Range (Hz)	57 - 14, 000
Resonant Frequency (Fs) (Hz) +/- 15%	93

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More Specifications

Application	Commercial, Indoor, Voice Communications
RoHS Compliant	Yes
DC Resistance (Re) (Ω)	7.6
Program Power (W)	40
Continuous Power (W)	20

Small Signal Parameters

Nominal Impedance (Z) (Ω)	8
DC Resistance (Re) (Ω)	7.6
Voice Coil Inductance (Le) (mH)	0.24
Resonant Frequency (Fs) (Hz) +/- 15%	93
Mechanical Q Factor (Qms)	5.94
Electrical Q Factor (Qes)	1.0
Total Q Factor (Qts)	0.86
Moving Mass (Mms) (gm)	7.70
Suspension Compliance (Cms) (mm/N)	0.23
Mechanical Resistance (Rms) (kg/s)	0.98
Surface Area of Diaphragm (Sd) (cm^2)	219.0
Compliance Equivalent Volume (Vas) (L)	15.5
Maximum Linear Excursion (Xmax) (mm)	0.6
Motor Force Factor (BL) (T•M)	6.6
Efficiency (η_0) (%)	2.6
Efficiency Bandwidth Product (EBP) (Fs/Qes)	199.64

Material Descriptions

Basket Type	Stamped steel
Terminal Size (mm)	4.8 x 0.5
Voice Coil Diameter (mm)	25.4
Voice Coil Wire Material	Copper
Voice Coil Former Material	Aluminum
Magnet Material	Ferrite
Magnet Weight (g)	340
Cone Body Material	Paper
Spider Material	Cotton
Dust Cap Material	Felt

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Net Weight (kg)	1.36

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