

The 93086 is an 8", 8 ohm high-power extended range music and voice speaker with a coaxially mounted PEI dome tweeter. This unique coax is ideal for high power foreground music systems and mounts into industry standard back cans.

- Extended range music and voice speaker
- 8" (203 mm) steel basket diameter
- 100 watt, 8 ohm, 92 dB SPL
- 2" copper voice coil, Kapton former
- PEI dome tweeter, coaxially mounted
- Paper 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)	8" (203 mm)
Rated Impedance (Ω)	8
Continuous Power (W)	100
Sensitivity (dB SPL) ¹	92
Frequency Range (Hz)	35 - 20,000
Resonant Frequency (Fs) (Hz) +/- 15%	47

More Specifications

Application	Voice Communications
RoHS Compliant	No
DC Resistance (Re) (Ω)	5.7
Program Power (W)	200
Continuous Power (W)	100

Small Signal Parameters

Nominal Impedance (Z) (Ω)	8
DC Resistance (Re) (Ω)	5.7
Voice Coil Inductance (Le) (mH)	0.85
Resonant Frequency (Fs) (Hz) +/- 15%	47
Mechanical Q Factor (Qms)	16.59
Electrical Q Factor (Qes)	0.39
Total Q Factor (Qts)	0.29
Moving Mass (Mms) (gm)	28.37
Suspension Compliance (Cms) (mm/N)	0.34
Mechanical Resistance (Rms) (kg/s)	0.55
Surface Area of Diaphragm (Sd) (cm²)	226.98
Compliance Equivalent Volume (Vas) (L)	25.06
Motor Force Factor (BL) (T•M)	11.5
Efficiency (η_0) (%)	0.81
Efficiency Bandwidth Product (EBP) (Fs/Qes)	119.59

Material Descriptions

Basket Type	Stamped steel
Terminal Size (mm)	2.8 x 0.5
Voice Coil Diameter (mm)	51
Voice Coil Wire Material	High temperature copper
Voice Coil Former Material	Kapton
Magnet Material	Ferrite
Magnet Weight (g)	1077.3
Cone Body Material	Paper composite
Cone Surround Material	Natural rubber
Dust Cap Material	Felt
Net Weight (kg)	3.63

