MODEL #: 165-FR08-04

6.5 INCH (165 MM) 8 OHM, SINGLE DRIVER LOUDSPEAKER

PART #: 93085

At the heart of every personal audio project lives someone who craves a meaningful experience only music can provide. That someone deserves an experience unmarred by mechanical imperfections and acoustic inconsistencies. That's why MISCO designed the 93085: A unique, full-range loudspeaker that reproduces music as accurately as possible for high-end, single transducer systems without cross-over requirements.

To achieve faithful reproduction, the 93085 uses a hard fiber dual-cone and a cotton spider to optimize dispersion and damping capacities for an ideal transient response. Along with that is an EBP of 86 to fit within either a sealed or vented enclosure, allowing you to apply your personal listening preferences to this driver's strong bass reflex. If you need true audio fidelity, then this is the speaker for you.

Oaktron by MISCO is a premium line of high-performance, ready-to-ship transducers and drivers for a wide variety of applications. From elegantly simple to highly specialized designs for unique and demanding applications, there is an *Oaktron* loudspeaker perfectly suited for your needs.



Primary Specifications

Size, Nominal (inch & mm)	6" (152 mm)
Rated Impedance (Ω)	8
Continuous Power (W)	30
Sensitivity (dB SPL) [1]	93
Frequency Range (Hz)	45 - 14, 000
Resonant Frequency (Fs) (Hz) +/- 15%	45

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More Specifications

Application	Home Audio
RoHS Compliant	Yes
DC Resistance (Re) (Ω)	7.3
Program Power (W)	60
Continuous Power (W)	30

Small Signal Parameters

Nominal Impedance (Z) (Ω)	8
DC Resistance (Re) (Ω)	7.3
Voice Coil Inductance (Le) (mH)	0.42
Resonant Frequency (Fs) (Hz) +/- 15%	45
Mechanical Q Factor (Qms)	10.52
Electrical Q Factor (Qes)	0.52
Total Q Factor (Qts)	0.50
Moving Mass (Mms) (gm)	8.3
Suspension Compliance (Cms) (mm/N)	1.54
Mechanical Resistance (Rms) (kg/s)	0.22
Surface Area of Diaphragm (Sd) (cm^2)	149.6
Compliance Equivalent Volume (Vas) (L)	48.69
Maximum Linear Excursion (Xmax) (mm)	1.2
Coil Winding Height (mm)	8.6
Magnetic Gap Height (mm)	6.3
Motor Force Factor (BL) (T•M)	5.7
Efficiency (η_0) (%)	0.8
Efficiency Bandwidth Product (EBP) (Fs/Qes)	86.2

Material Descriptions

Basket Type	Aluminum
Terminal Size (mm)	6.4 x 0.8 mm / 4.7 x 0.5 mm
Voice Coil Diameter (mm)	25.81
Voice Coil Wire Material	Copper clad aluminum
Voice Coil Former Material	Kapton
Magnet Material	Ferrite
Magnet Weight (g)	283.5
Cone Body Material	Paper
Cone Surround Material	Treated cloth

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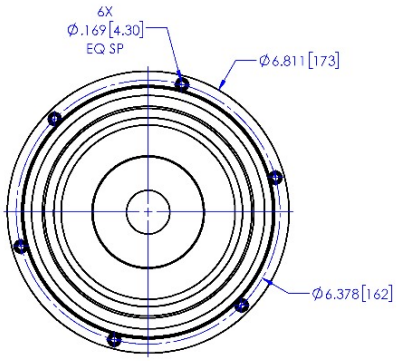
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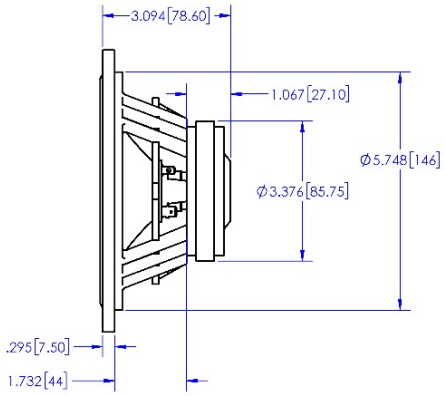
Spider Material	Cotton
Dust Cap Material	Paper
Net Weight (kg)	1.02





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