

The 93007 wide range speaker is an excellent choice for compact applications requiring high fidelity music, or high intelligibility voice/communications audio. A talc-filled, polypropylene cone with a rubber surround allows this driver to be used either indoors or outdoors. Ideal applications include home theaters, alarm and security systems, gaming and arcade cabinets, kiosk audio, smart devices, and more.

- Wide range speaker
- 3" (77 mm) basket diameter
- 20 watts, 8 ohms, 83 dB SPL
- 0.8" copper voice coil, aluminum former
- Ferrite magnet, stamped steel basket
- Polypropylene cone, rubber surround

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

MISCO engineers use the world's most sophisticated loudspeaker measurement systems including the Klippel Analyzer to maximize and validate the speaker's design, as well as the Klippel QC module to ensure perfect unit to unit consistency and reliability.



#### Primary Specifications

<b>Size, Nominal (inch &amp; mm)</b>	3" (77 mm)
<b>Rated Impedance (<math>\Omega</math>)</b>	8
<b>Continuous Power (W)</b>	10
<b>Sensitivity (dB SPL) <sup>1</sup></b>	83
<b>Frequency Range (Hz)</b>	103 - 15, 000
<b>Resonant Frequency (Fs) (Hz) +/- 15%</b>	103

### More Specifications

<b>Application</b>	Arcade Gaming, Casino Gaming, Indoor, Drive-Thru / Kiosk, Outdoor
<b>RoHS Compliant</b>	Yes
<b>DC Resistance (Re) (<math>\Omega</math>)</b>	6.7
<b>Program Power (W)</b>	20
<b>Continuous Power (W)</b>	10

### Small Signal Parameters

<b>Nominal Impedance (Z) (<math>\Omega</math>)</b>	8
<b>DC Resistance (Re) (<math>\Omega</math>)</b>	6.7
<b>Voice Coil Inductance (Le) (mH)</b>	0.24
<b>Resonant Frequency (Fs) (Hz) +/- 15%</b>	103
<b>Mechanical Q Factor (Qms)</b>	3.07
<b>Electrical Q Factor (Qes)</b>	1.48
<b>Total Q Factor (Qts)</b>	1.00
<b>Moving Mass (Mms) (gm)</b>	3.7
<b>Suspension Compliance (Cms) (mm/N)</b>	0.65
<b>Mechanical Resistance (Rms) (kg/s)</b>	0.78
<b>Surface Area of Diaphragm (Sd) (cm<sup>2</sup>)</b>	29.2
<b>Compliance Equivalent Volume (Vas) (L)</b>	0.78
<b>Maximum Linear Excursion (Xmax) (mm)</b>	0.6
<b>Coil Winding Height (mm)</b>	5.7
<b>Magnetic Gap Height (mm)</b>	4.5
<b>Motor Force Factor (BL) (T•M)</b>	3.3
<b>Efficiency (<math>\eta_0</math>) (%)</b>	0.06
<b>Efficiency Bandwidth Product (EBP) (Fs/Qes)</b>	69.2

### Material Descriptions

<b>Basket Type</b>	Stamped steel with black powder coat
<b>Terminal Size (mm)</b>	5.2 x 0.5
<b>Voice Coil Diameter (mm)</b>	19.38
<b>Voice Coil Wire Material</b>	Copper
<b>Voice Coil Former Material</b>	Aluminum
<b>Magnet Material</b>	Ferrite
<b>Magnet Weight (g)</b>	85.05
<b>Cone Body Material</b>	Talc filled polypropylene

<b>Cone Surround Material</b>	Rubber
<b>Spider Material</b>	Conex
<b>Dust Cap Material</b>	Talc filled polypropylene
<b>Net Weight (kg)</b>	0.1



