

This Oaktron one-inch silk dome tweeter is a prime choice for two-way speaker systems. It features a conical wave guide design for a smoother frequency response, a large rear chamber for lower frequency crossovers\*, and a high-energy neodymium magnet. The faceplate features recessed mounting holes to minimize reflections from mounting screws.

- Tweeter
- 1 in. (25 mm) basket diameter
- 20 watts, 4 ohms, 87 dB SPL
- 1 in. aluminum voice coil, aluminum former
- Neodymium magnet, ABS plastic mounting plate & rear chamber
- Silk dome cone, silk 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 confirm the speaker's design, as well as the Klippel QC module to ensure perfect unit to unit consistency and reliability.

*\* Note: Protect your system's tweeters. Allowing lower frequencies to reach a tweeter can cause lasting damage. Use a passive or active high-pass filter (crossover) with this tweeter, and a simple first order (6 dB/octave) of a proper value capacitor to block low frequencies. MISCO suggests using a crossover that includes a capacitor and an inductor to achieve steeper low-frequency filtering of 12dB per octave. See the specifications of this tweeter for the smallest recommended crossover frequency.*

This tweeter is ideal for use in a wide variety of applications including:

- Home audio systems
- Home theater systems
- Automotive and motorcycle audio speakers
- Arcade speakers
- Casino gaming cabinets
- Smart devices and speakers



#### Primary Specifications

<b>Size, Nominal (inch &amp; mm)</b>	1" (25 mm)
<b>Rated Impedance (<math>\Omega</math>)</b>	4
<b>Continuous Power (W)</b>	20
<b>Sensitivity (dB SPL) <sup>1</sup></b>	87
<b>Frequency Range (Hz)</b>	700 - 20,000
<b>Resonant Frequency (Fs) (Hz) +/- 15%</b>	735

### More Specifications

<b>Application</b>	High-End Audio and Home Theater, Indoor, Musical Instruments, Pro Sound
<b>RoHS Compliant</b>	Yes
<b>DC Resistance (Re) (<math>\Omega</math>)</b>	3.6
<b>Program Power (W)</b>	40
<b>Continuous Power (W)</b>	20

### Small Signal Parameters

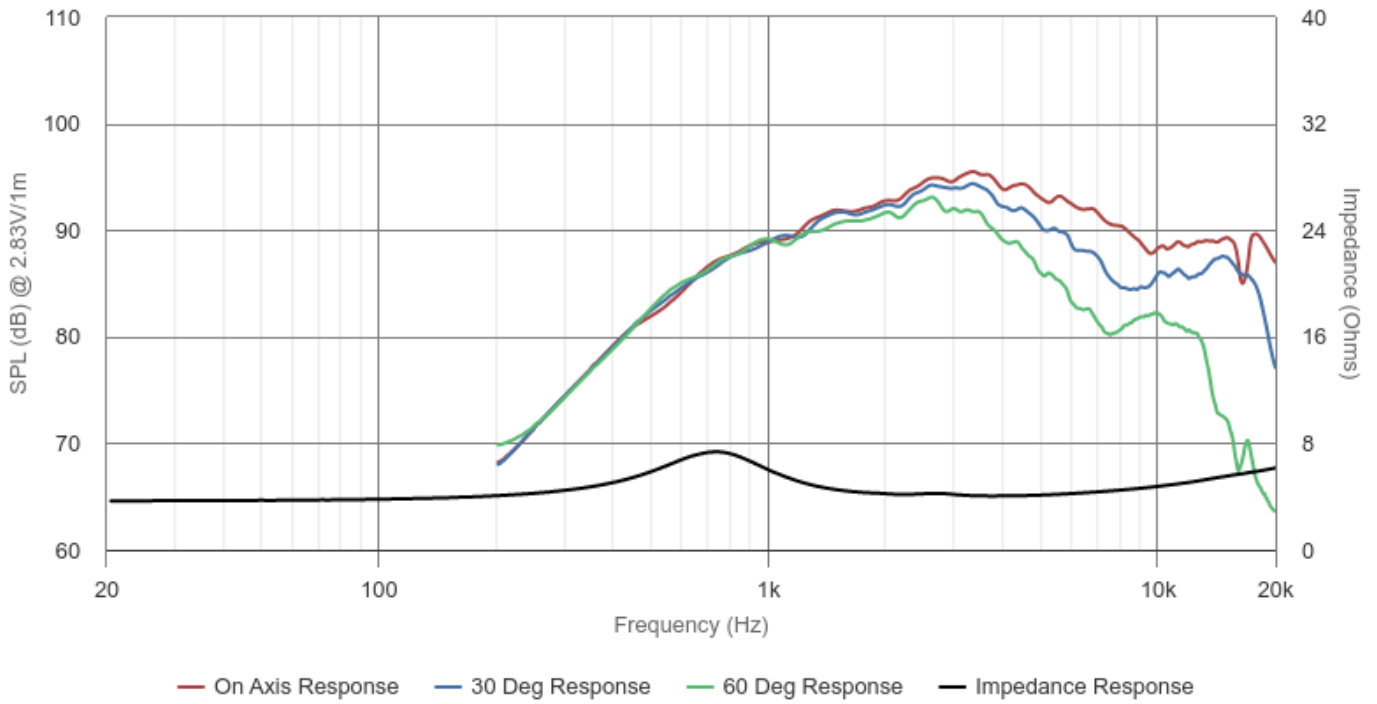
<b>Nominal Impedance (Z) (<math>\Omega</math>)</b>	4
<b>DC Resistance (Re) (<math>\Omega</math>)</b>	3.6
<b>Voice Coil Inductance (Le) (mH)</b>	0.03
<b>Resonant Frequency (Fs) (Hz) +/- 15%</b>	735
<b>Mechanical Q Factor (Qms)</b>	1.16
<b>Electrical Q Factor (Qes)</b>	1.29
<b>Total Q Factor (Qts)</b>	0.61
<b>Moving Mass (Mms) (gm)</b>	0.3
<b>Suspension Compliance (Cms) (mm/N)</b>	0.15
<b>Mechanical Resistance (Rms) (kg/s)</b>	1.28
<b>Surface Area of Diaphragm (Sd) (cm<sup>2</sup>)</b>	7.1
<b>Compliance Equivalent Volume (Vas) (L)</b>	0.01
<b>Motor Force Factor (BL) (T•M)</b>	2.1
<b>Efficiency (<math>\eta_0</math>) (%)</b>	0.31
<b>Efficiency Bandwidth Product (EBP) (Fs/Qes)</b>	571.8

### Material Descriptions

<b>Basket Type</b>	ABS plastic mounting plate and rear chamber
<b>Terminal Size (mm)</b>	4.7 x 0.5 mm
<b>Voice Coil Diameter (mm)</b>	25
<b>Voice Coil Wire Material</b>	Copper clad aluminum
<b>Voice Coil Former Material</b>	Aluminum
<b>Magnet Material</b>	Neodymium
<b>Cone Body Material</b>	Single piece, treated silk dome - Black
<b>Cone Surround Material</b>	Single piece, treated silk dome - Black
<b>Net Weight (kg)</b>	0.09



## Frequency & Impedance Response



Highcharts.com

