

The 93021 is a silk dome tweeter made for indoor systems, providing both high output, and smooth, low-distortion sound. A low resonant frequency design makes this tweeter easy to pair with high-quality woofers as well. Use this product to create top-notch line arrays within close-fitting spaces.

- Tweeter
- 1" (25 mm) basket diameter
- 20 watts, 4 ohms, 90 dB SPL
- High energy neodymium magnet
- Silk dome

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

<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>	90
<b>Frequency Range (Hz)</b>	650 - 20, 000
<b>Resonant Frequency (Fs) (Hz) +/- 15%</b>	650

### More Specifications

<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>	0.001
<b>Resonant Frequency (Fs) (Hz) +/- 15%</b>	650
<b>Mechanical Q Factor (Qms)</b>	0.73
<b>Electrical Q Factor (Qes)</b>	1.55
<b>Total Q Factor (Qts)</b>	0.72
<b>Moving Mass (Mms) (gm)</b>	0.3
<b>Suspension Compliance (Cms) (mm/N)</b>	0.87
<b>Mechanical Resistance (Rms) (kg/s)</b>	0.30
<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>	1.9
<b>Efficiency (<math>\eta_0</math>) (%)</b>	0.01
<b>Efficiency Bandwidth Product (EBP) (Fs/Qes)</b>	418.8

### Material Descriptions

<b>Basket Type</b>	ABS, black finish
<b>Voice Coil Diameter (mm)</b>	25.4
<b>Voice Coil Wire Material</b>	Copper
<b>Voice Coil Former Material</b>	Aluminum
<b>Magnet Material</b>	Neodymium
<b>Magnet Weight (g)</b>	20.4
<b>Cone Body Material</b>	Silk
<b>Net Weight (kg)</b>	0.07

