

This silk, soft dome tweeter is perfect for anyone looking for smooth high end frequencies in a rugged frame. The 93023 uses a custom-built, thin silk membrane to construct a flat frequency response and provide a clear, consistent performance. It's wide bandwidth and high sensitivity make this tweeter ideal for multi-way systems.

- Tweeter
- 1 in. (25 mm) silk dome, 4" (100 mm) face plate
- 10 watts, 8 ohms, 90 dB SPL
- 1 in. aluminum voice coil, polyimide former
- Neodymium magnet, cast aluminum basket
- Silk dome cone, silk surround

**Note: Protect the tweeters that are installed in your audio system.** Lower frequencies are not desirable signals to send to a tweeter. They can damage or destroy the tweeter diaphragm. Protection is important. Use a simple passive crossover (First Order), by using a (proper value) capacitor to stop low frequencies from making it to the tweeter. Refine your audio system by adding more complex crossovers with inductors, capacitors, and/or resistors. You may also want to add an active crossover system.

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)	1" (25 mm)
Rated Impedance ( $\Omega$ )	8
Continuous Power (W)	10
Sensitivity (dB SPL) <sup>1</sup>	90
Frequency Range (Hz)	1, 200 - 20, 000
Resonant Frequency (Fs) (Hz) +/- 15%	1105

### More Specifications

<b>Application</b>	High-End Audio and Home Theater, Home Audio, Indoor
<b>RoHS Compliant</b>	Yes
<b>DC Resistance (Re) (<math>\Omega</math>)</b>	7.2
<b>Program Power (W)</b>	20
<b>Continuous Power (W)</b>	10

### Small Signal Parameters

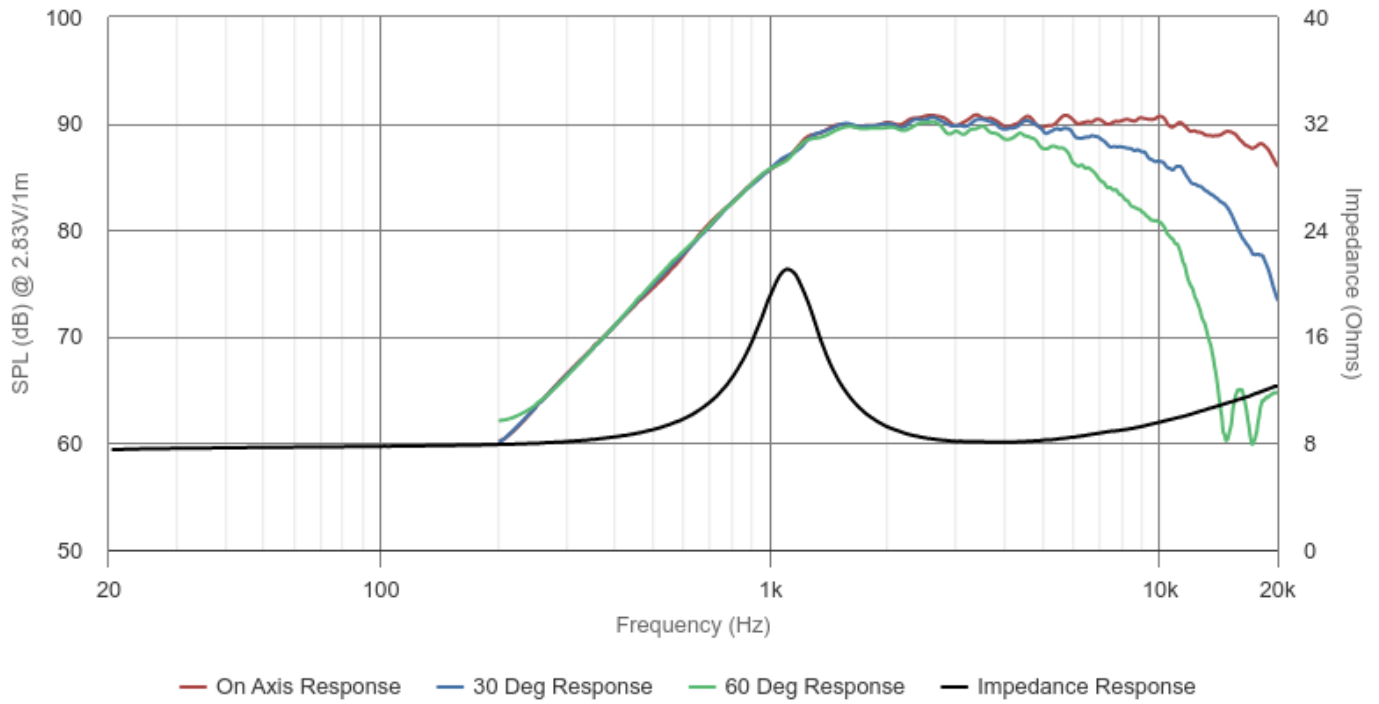
<b>Nominal Impedance (Z) (<math>\Omega</math>)</b>	8
<b>DC Resistance (Re) (<math>\Omega</math>)</b>	7.2
<b>Voice Coil Inductance (Le) (mH)</b>	0.06
<b>Resonant Frequency (Fs) (Hz) +/- 15%</b>	1105
<b>Mechanical Q Factor (Qms)</b>	2.41
<b>Electrical Q Factor (Qes)</b>	1.26
<b>Total Q Factor (Qts)</b>	0.83
<b>Moving Mass (Mms) (gm)</b>	0.2
<b>Suspension Compliance (Cms) (mm/N)</b>	0.09
<b>Mechanical Resistance (Rms) (kg/s)</b>	0.67
<b>Surface Area of Diaphragm (Sd) (cm<sup>2</sup>)</b>	6.6
<b>Compliance Equivalent Volume (Vas) (L)</b>	0.01
<b>Motor Force Factor (BL) (T•M)</b>	3.0
<b>Efficiency (<math>\eta_0</math>) (%)</b>	0.57
<b>Efficiency Bandwidth Product (EBP) (Fs/Qes)</b>	875.4

### Material Descriptions

<b>Basket Type</b>	Cast aluminum
<b>Terminal Size (mm)</b>	2.8 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>	Polyimide film
<b>Magnet Material</b>	Neodymium
<b>Magnet Weight (g)</b>	252
<b>Cone Body Material</b>	Silk
<b>Cone Surround Material</b>	Silk
<b>Spider Material</b>	Silk
<b>Net Weight (kg)</b>	0.56



## Frequency & Impedance Response



Highcharts.com

