MODEL #: 25-TD04-01

1 INCH (25 MM) PREMIUM SILK DOME TWEETER WITH REAR CHAMBER

PART #: 93019

This Oaktron one-inch Silk Dome tweeter is an ideal choice for two-way systems. It features a wave guide design for a smoother frequency response, and a large rear chamber for crossovers with 6.5" or 8" woofers. A powerful neodymium magnet allows for high electrical damping and sensitivity. The faceplate features recessed mounting holes, reducing 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, silk surround



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 final design. Oaktron by MISCO is the premium line of high performance, ready-to-ship transducers for a wide variety of applications including high fidelity, musical instrument, automotive 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.

*Note: **Protect the tweeters 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. You can also further refine your audio system by adding more complex crossovers with inductors and more capacitors and resistors. Or, ultimately you may want to add an active crossover system.*

Primary Specifications

Size, Nominal (inch & mm)	1" (25 mm)
Rated Impedance (Ω)	4
Continuous Power (W)	20
Sensitivity (dB SPL) [1]	87
Frequency Range (Hz)	430 - 20, 000
Resonant Frequency (Fs) (Hz) +/- 15%	699

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More Specifications

Application	High-End Audio and Home Theater, Home Audio, Pro Sound
RoHS Compliant	Yes
DC Resistance (Re) (Ω)	3.6
Program Power (W)	40
Continuous Power (W)	20

Small Signal Parameters

Nominal Impedance (Z) (Ω)	4
DC Resistance (Re) (Ω)	3.6
Voice Coil Inductance (Le) (mH)	0.03
Resonant Frequency (Fs) (Hz) +/- 15%	699
Mechanical Q Factor (Qms)	2.05
Electrical Q Factor (Qes)	1.38
Total Q Factor (Qts)	0.83
Moving Mass (Mms) (gm)	0.4
Suspension Compliance (Cms) (mm/N)	0.15
Mechanical Resistance (Rms) (kg/s)	0.75
Surface Area of Diaphragm (Sd) (cm^2)	7.1
Compliance Equivalent Volume (Vas) (L)	0.01
Motor Force Factor (BL) (T•M)	2.0
Efficiency (η_0) (%)	0.25
Efficiency Bandwidth Product (EBP) (Fs/Qes)	504.8

Material Descriptions

Basket Type	ABS plastic mounting plate and rear chamber
Terminal Size (mm)	4.7 x 0.5 mm
Voice Coil Diameter (mm)	25.4
Voice Coil Wire Material	Copper clad aluminum
Voice Coil Former Material	Aluminum
Magnet Material	Neodymium
Cone Body Material	Single piece, treated silk dome - black
Cone Surround Material	Single piece, treated silk dome - black
Net Weight (kg)	0.09

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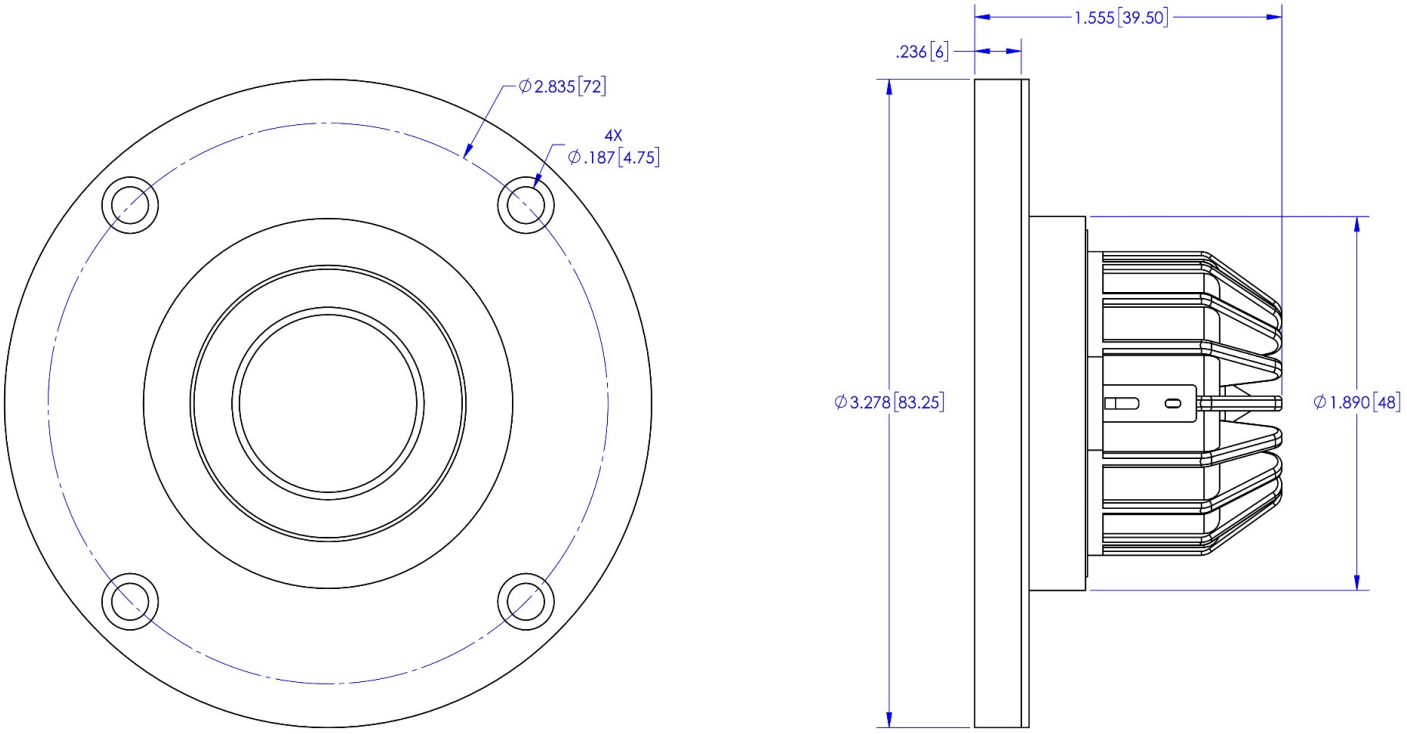
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