

RT2H-A Isodynamic Tweeter

Why do we call the RT2H-A Isodynamic?

Contrary to a conventional dynamic driver, this transducer has a driving force distributed evenly over the whole area of the vibrating element.

What is special about the RT2H-A?

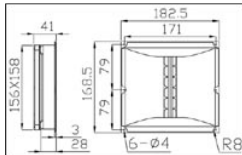
The key element of the RT2H-A is the membrane, which consists of Kapton? Film with a pattern of Aluminum conductors. The conductors cover about 90% of the whole vibrating area. The membrane assembly is placed precisely between two rows of Neodymium and Barium Ferrite bar magnets. This tweeter has a larger membrane area than the RT1C-A, providing higher power handling and substantially extended low-end cut-off frequency. The Aluminum mounting flange, with flared wave-guide, controls the frequency response and directivity of the tweeter. The mild horn shape of the flange provides a 1 dB increase in sensitivity while avoiding the usual artifacts of horn-loading. The clamped membrane area is connected to the more massive front metal plate. This, combined with a special heat conductive compound, provides effective cooling of the aluminum conductors, dramatically increasing the dynamic range of the RT2H-A. This tweeter is magnetically shielded and is an extremely flat driver. Its depth is only 27 mm including the mounting flange.

The RT2H-A has resistive impedance in the audio frequency range. This unique feature provides a friendly load for any amplifier and facilitates easy crossover design. Unlike other drivers, the RT2H-A has an essentially linear phase response that provides time coherent reproduction resulting in accurate musical rhythm and imaging. The vibrating element of the RT2H-A is almost weightless compared to that of a dome tweeter. As a result it provides an immediate and precise response to any transients in the original signal. The RT2H-A has an exceptional ability to reveal the dynamics of instruments with complex high frequency spectra.

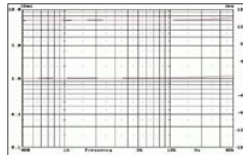
Unlike conventional tweeters and electrostatic speakers, the RT2H-A has an extremely wide sound dispersion in the horizontal plane. At the same time, contrary to other dynamic tweeters, the RT2H-A has well-controlled dispersion in the vertical plane. This feature helps to avoid disturbing floor and ceiling reflections, increasing imaging accuracy. With this tweeter there is no need to manipulate the network or use multiple units to achieve the restricted vertical directivity necessary for home theater applications.

When considering all of the properties of the RT2H-A, it becomes clear why many critical listeners among audiophiles highly prize planar transducers. They possess unsurpassed clarity, transparency and the ability to deliver every tiniest musical detail. Since the RT2H-A has exceptional ability to reveal the dynamics of instruments and sonic resolution, it is recommended to match it with drivers having similar properties in order to maximize the overall integrity of a speaker system.

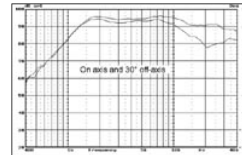
Products Graph:



Mechanical Drawing
(Magnify)



Impedance
(Magnify)



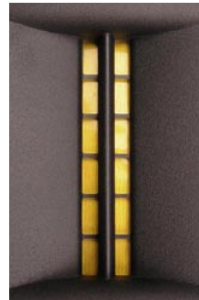
Frequency response
(Magnify)



Bottom View
(Magnify)



Top View
(Magnify)



Part View 1
(Magnify)



Part View 2
(Magnify)

Ribbon tweeter:

RT2H-A Isodynamic Tweeter

Nominal Impedance (Z)(Ω) : 8
 Nominal Power Handling (Pnom)(W) : 30
 Sensitivity (2.83v/1m)(dB) : 94
 Weight (M)(Kg) : 0.8
 Magnet System : Neodymium
 Recommended Crossover Frequency(Hz) : >3000Hz

