

## High performance Ture Ribbon Tweeter

### Specification:

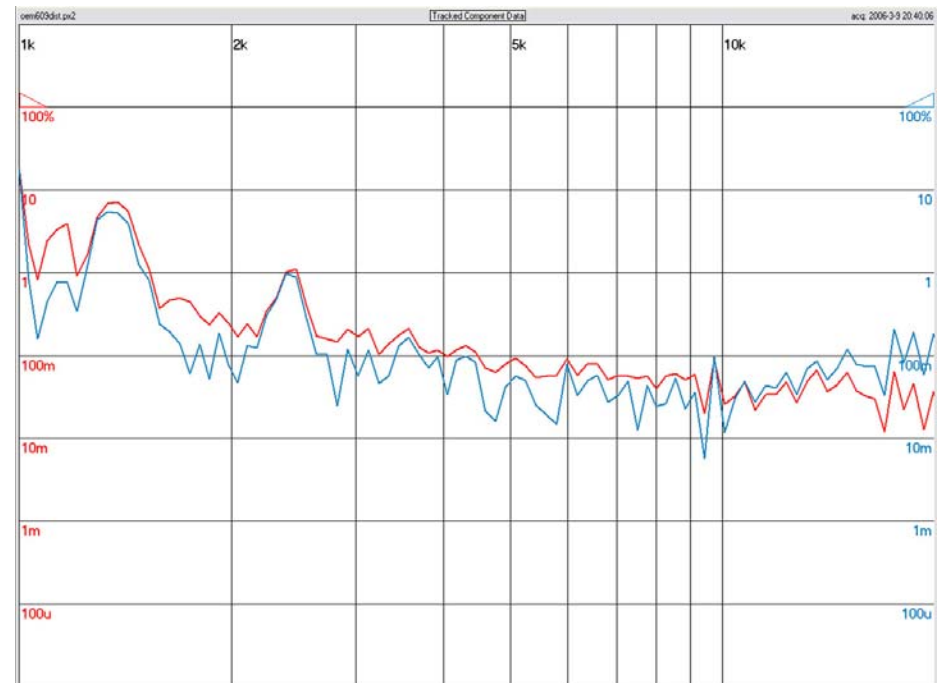
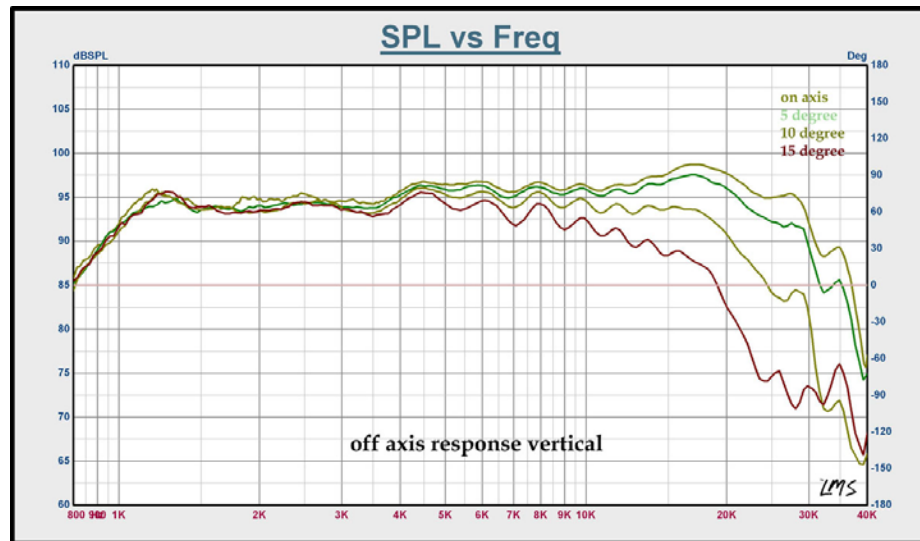
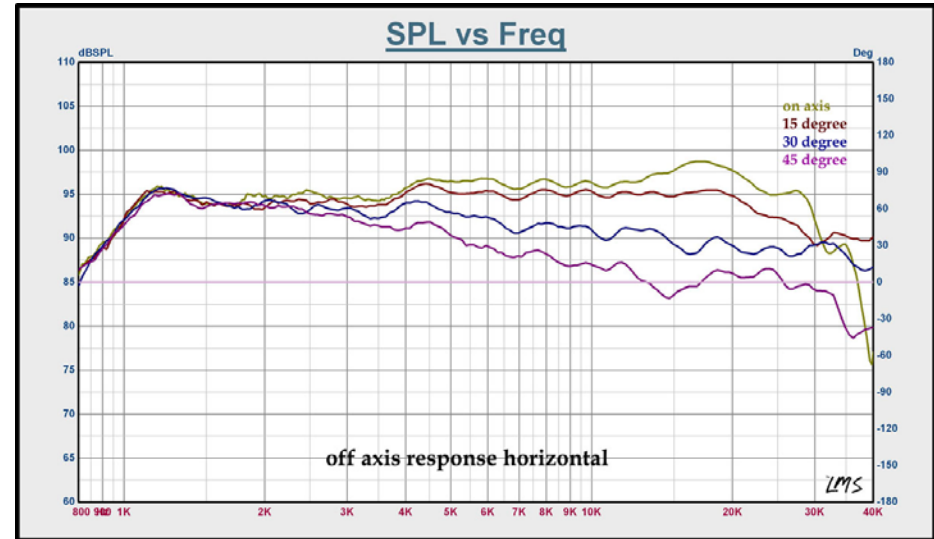
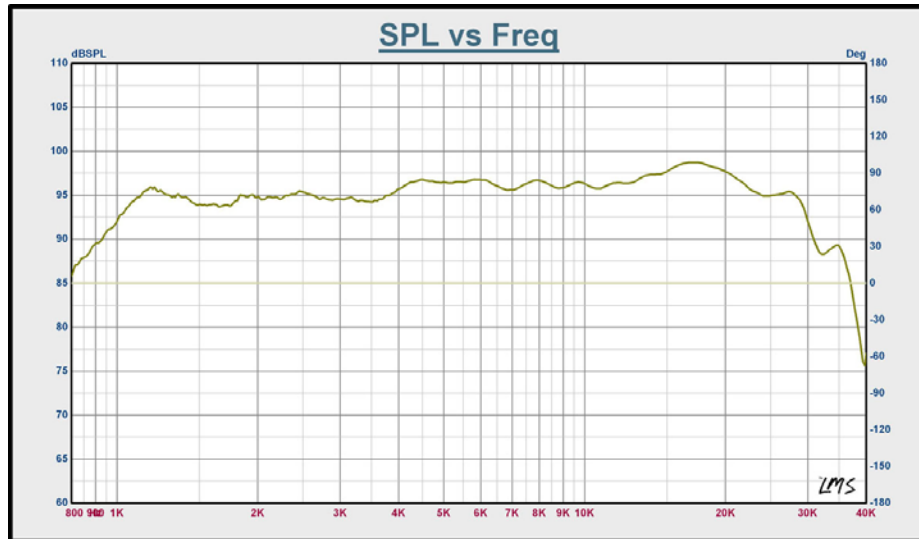
Model name: NeoCD3.5H - 90x40 waveguide

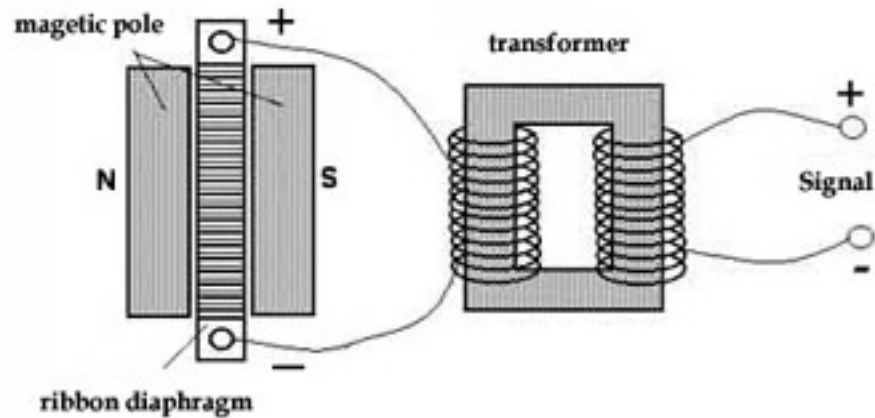
Sensitivity: 95dB/2.83V/1m

Power handling: 16W rms

Frequency response: 1.2KHz~30KHz

Impedance: 6 ohm





What's ribbon transducer?

The ribbon transducer is quite old as a concept, and was developed by European Acoustic Laboratories in 1928.

Fundamental physics support the ribbon as the most perfect type of transducer. A thin light metal ribbon is suspended in a powerful transverse magnetic field. The signal current passes through the current and magnetic field. The electromagnetic circuit has complete control over ribbon motion. The ribbon itself projects the sound. The ribbon serves both as voice coil and diaphragm. Every part of the ribbon is driven directly and simultaneously without any energy storage.

The ribbon transducer improves the performance of loudspeaker systems for the following reasons:

1. No sound coloring, in usable frequency range output voice always fidelity to input signal.
2. Speed of response, start and stop in instantaneous, permit it to maintain the leading edge of musical sounds and their harmonics.
3. Extremely low inter-modulation and harmonic distortion
4. Extremely low mass device.
5. Capable of the highest efficiency known in direct radiator transducers.
6. High rate of Young's modulus.
7. Extremely wide, flat frequency response (800Hz through 100 KHz.)
8. Flat impedance in usable frequency range that easy to design X-over.

#### Summary

The ribbon loudspeakers are superior to other transducers because all design factors are correct. Other high range extenders do not blend easily when added to loudspeaker systems because they add their own distortion by transient smearing, energy and non-linear response. The quality of materials used in ribbon speakers has the ability to "clean up" and "open up" not only the extreme highs, but also the middle tones without adding any distortion. The addition of a pair of ribbon loudspeakers to any quality speaker system is the most cost effective way to improve the performance of a loudspeaker system.

# NeoCD3.5H ribbon tweeter measurement

