



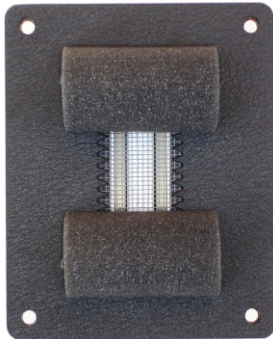
RAAL is a company based in Zajecar (Zajechar), eastern Serbia. It is 100% owned and managed by its founder and director, solely creating the company's policy, products, development and strategy.

In an effort to recreate a sound that happened in some other place, in some other time, audio engineers are constantly trying to find the best means to record and reproduce the sound as exactly as possible. If we could have absolutely accurate replica of recorded sound at the end of an audio equipment chain, than the sensation that we would have, would be the same as we actually participated in the recorded event.

Of course, absolute accuracy is not possible. Fortunately enough, it has been proven that it takes a certain level of reproduction accuracy to make the human or animal ears experience no difference to original. Impressive achievement, but with ridiculously expensive and impractical laboratory equipment and conditions.

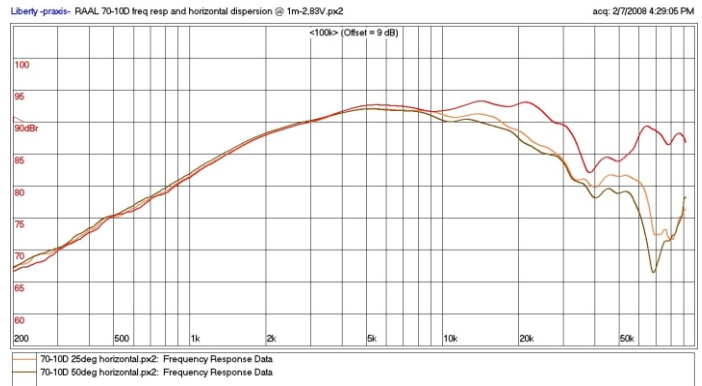
Our goal is to bring the most of that experience to everyday life.

RAAL 70-10D Ribbon

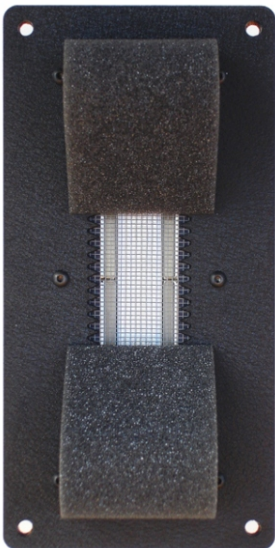


- Ribbon material: aluminium
- Ribbon dims: (70 x 9.5 x 0.004) mm
- Ribbon mass: 0.0075 g
- Ribbon area: 6.65 cm sq.
- Gap induction : 0.62 T
- Frequency response: 2 kHz ~ 100 kHz
- Sensitivity: 92 dB / 1 m / 2.83 V
- Impedance: 8 Ohm
- Program power handling: 150 W*
- *Recommended crossover: 4th order L-R @ 2800 Hz

Price Each \$336
Price Each with Amorphous Core \$440

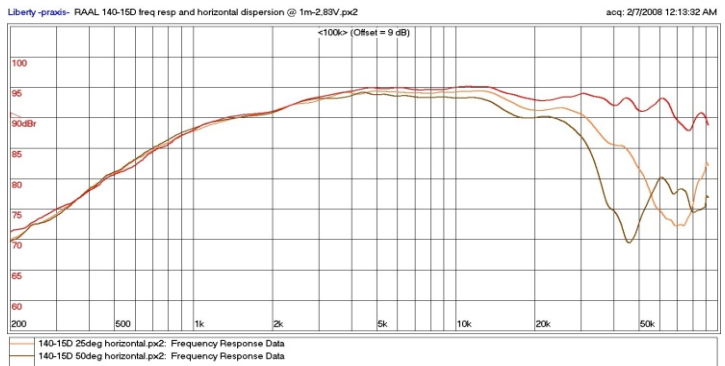


RAAL 140-15D Ribbon



- Ribbon material: aluminium
- Ribbon dims: (140 x15 x 0.004) mm
- Ribbon mass: 0.022 g
- Ribbon area: 21 cm sq.
- Gap induction : 0.51 T
- Frequency response: 500Hz ~ 100 kHz
- Sensitivity: 95 dB / 1 m / 2.83 V
- Impedance: 8 Ohm
- Program power handling: 200 W*
- *Recommended crossover: 4th order L-R @ 1600 Hz

Price Each \$558
Price Each with Amorphous Core \$662



Recently, we finished development of **Amorphous C-cores** transformer application in our ribbons. We are the first to use AMCC's in ribbons for absolutely uncompressed high power transient transfer and, at the same time, even further improving already the best low-level performance in the world today, by decreasing the width of hysteresis compared to HF ferrite cores. For direct coupled tube SE-ribbon, we successfully developed 175:1 ratio, -3dB at 120kHz Amorphous C-core transformers that can carry DC idle current of SET. Impedance conversion is about 30000:1, bringing the 0.1 Ohm ribbon up to 3kOhm, good for plate loading of most triodes in HF.

FEATURES:

- Special **FLATFOIL®** pure Aluminium ribbon
- Special **SYMMLEAD®** low inductance signal path
- Special **EQUAFIELD®** NdFeB magnetic structure
- Special “non-wave-guide” INOX front plate
- Exceptional vertical dispersion
- Super-fast settling time
- Flat frequency response
- Low nonlinear distortion
- High signal power handling
- Highest reliability

***Available for OEM customers: 70-20XR Ribbon Tweeter*

EQUAFIELD® technology: The magnetic field in RAAL ribbons is homogenous, in other words the width of the gap is designed to have the same strength at the ribbon edges as at the middle. EQUAFIELD® technology dramatically reduces stress and distortion of the ribbon foil. We've extensively used the FEM and BEM magnetic circuit analysis software to create a precisely-shaped magnetic field that is consistent across the gap width and depth. In order to create such a field with real magnets, very strong NdFeB magnets have been precisely machined into a very special shape prior to magnetization. The process of making the magnetic field homogenous does sacrifice some of the magnet's strength. However this loss of efficiency is eclipsed by the benefits of low stress and low linear and nonlinear distortion.