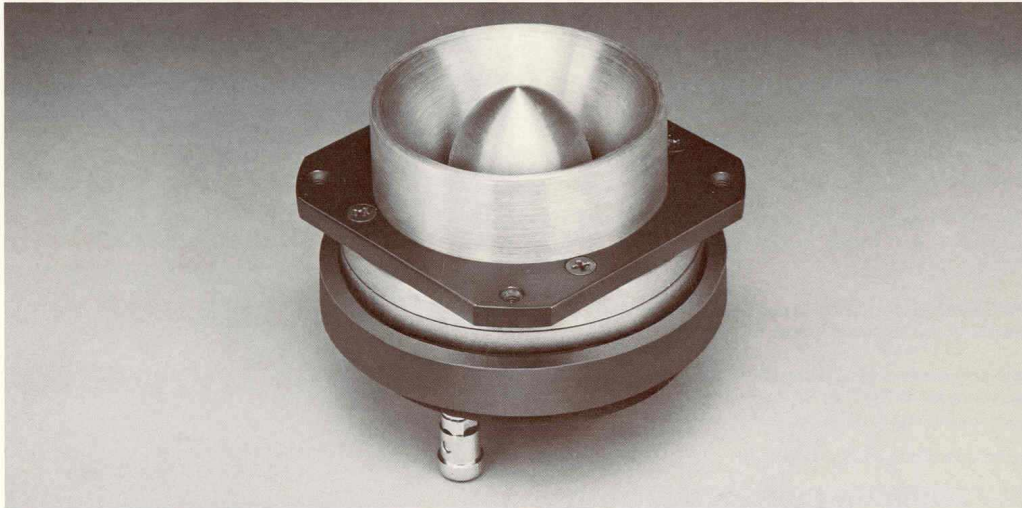


## Professional Series

# Model 2402H Ultra-High Frequency Transducer

40 W continuous program  
2.5–15 kHz response  
44 mm aluminum ribbon voice coil  
110 dB sensitivity, 1 W, 1 m  
40° conical dispersion at 10 kHz



Sound reinforcement applications demand loudspeakers with high acoustic output and controlled dispersion. The JBL Model 2402H ultra-high frequency transducer is engineered to meet these demands, providing tight pattern control, deep penetration, and extremely high on-axis sensitivity. The high end of the audio spectrum is reproduced with incredible clarity and crispness—all the realism a performer could desire.

Frequency response extends smoothly from 2.5 kHz to 15 kHz. A circular exponential horn assembly provides a dispersion pattern that is 40° conical at 10 kHz. For a given power input, the 2402H produces an exceptionally high acoustic output, converting a 10 W input into a sound pressure level of 100 dB at a distance of 10 m (33 ft). Such efficiency allows the 2402H to re-create intense high frequency onsets and transients with outstanding clarity and accuracy.

The 2402H utilizes an anisotropic strontium ferrite magnet, manufactured using a wet-pressed forming process. The newly developed magnet material provides the highest residual flux density, maximum energy product, and most suitable coercive force for alnico conversion to ferrite. These characteristics yield better temperature stability, resistance to demagnetization, reduction in weight over typical ferrite material, and give the highest performance on an actual production basis. A flux density of 1.75 T (17,500 gauss) in the voice coil gap is realized.