



▶ 044 High Frequency Driver

HIGH FREQUENCY DOME RADIATOR

The new recording techniques place a premium on high frequency accuracy and definition, and JBL has designed the 044 high frequency dome radiator to meet these demands. In developing the 044, JBL engineers used laser interferometry, analyzing holograms (three-dimensional photographs) of diaphragm motion to better understand the actual stresses involved in reproducing musical waveforms. The diaphragm of the 044 is fabricated from linen, impregnated with a phenolic resin. JBL then uses a sophisticated vapor-deposition process to coat the phenolic with a microscopically thin layer of aluminum. The combination makes the diaphragm rugged enough to withstand high-energy high frequency peaks, yet light enough in weight to respond instantly to transients. The copper voice coil contributes to the high power handling and drives the diaphragm over its full circumference for smoother response. The 044 exhibits outstanding linearity over its full operating range, at any input level—there is almost no power compression.



SPECIFICATIONS:

HIGH FREQUENCY DOME RADIATOR:

Nominal Diameter:	25 mm (1 in)
Voice Coil:	25 mm (1 in) copper
Magnetic Assembly Weight:	0.9 kg (2 lb)
Flux Density:	1.4 tesla (14,000 gauss)
Sensitivity ⁴ :	89 dB SPL, 1 W, 1 m (3.3 ft)

Delay vs. Frequency

