

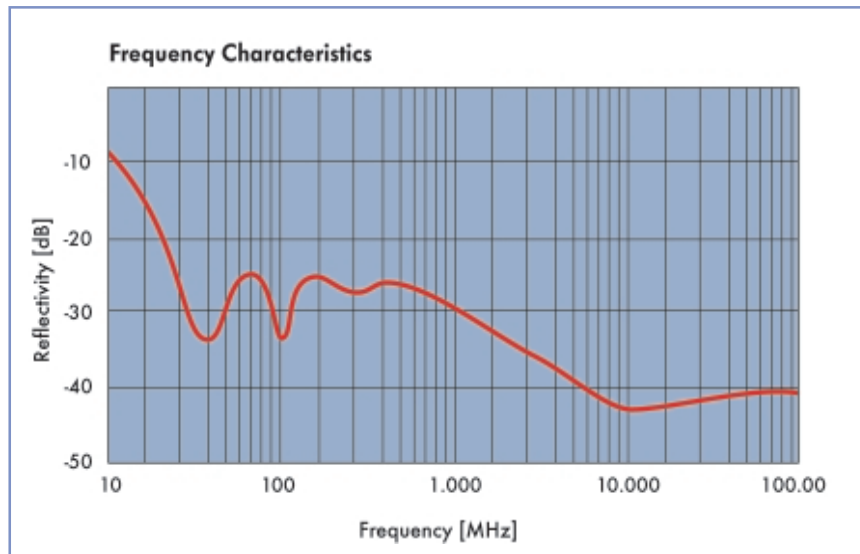
## Wide Band Cascade Absorber IP-130BL

The TDK IP-130BL cascade absorber is the most technically advanced ultra wide band absorber. Its computer designed, lightweight structure offers superb mechanical strength combined with exceptional performance.

The IP-130BL combines the magnetic resonance loss characteristics of TDK IB-011 ferrite tiles with a performance matched styrofoam absorber (a concept invented by TDK). High absorption performance is achieved as TDK is the only absorber supplier who manufactures both ferrite tiles and resistive absorbers, ensuring exact impedance matching from design to manufacture.

The closed cell structure of the polystyrene produces an even and consistent carbon density throughout the absorber and enhances absorption performance. With a reflection attenuation of greater than 25dB at the frequency range from 30 MHz to 2,000 MHz and 35dB from 20 GHz to 40 GHz, the IP-130BL can achieve a

deviation between theoretical NSA and measured NSA within  $\pm 3.5$ dB (ANSI C63.4 1992 & EN 50147-2).



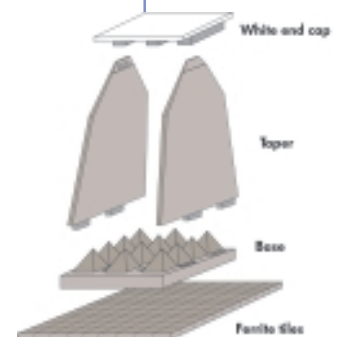
With a length of 130 cm, the IP-130BL cascade absorber is used for constructing high performance 10 meter semi-anechoic chambers.



10 meter test range semi-anechoic chamber constructed by TDK utilizing **IP-130BL** absorbers.

### Physical and Chemical Characteristics

Dimensions	600 mm x 600 mm x 1300 mm (23.6" L x 23.6" W x 51.2" H)
Basic Composition	Closed cell styrofoam/ferrite tiles. Does not soil hands or clothes on contact.
Mechanical Strength	4 kg/cm <sup>2</sup> tensile strength. No damage to tips or tapers.
Humidity Resistance	No deterioration with water. No hydrolysis effect.
Chemical Stability	Not readily attacked by acids, alkalines and petroleum-based liquids.
Product Life	15 years
Fire Retardency Certification	NRL class 1, 2 and 3, UL 94 HBF, DIN 4102 class B



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