

FOR FM BAND AND MICROWAVE ANECHOIC CHAMBERS

IP-BX MATERIAL

A composite electromagnetic absorber made by combining the IP-BX electromagnetic absorber, which consists of a styrofoam base and utilizes the ohmic loss of carbon, and an electromagnetic absorber that uses the magnetic loss of ferrite. Each of the loss material are matched for impedance to deliver excellent electromagnetic absorption performance from as low as the 70MHz FM band.

* Used in combination with a ferrite radio wave absorber.

IP-100BX, IP-130BX

TDK composite electromagnetic absorbers praised highly in tests for automobile antennas. IP-100BX delivers excellent electromagnetic absorption performance for vertical incidences starting at the FM band to the microwave range.

IP-130BX delivers excellent electromagnetic absorption performance for oblique incidences starting at the FM band to the microwave range.

These products are used widely in anechoic chambers for testing automobile antennas and large special purpose anechoic chambers.

**FEATURES**

- Ultra-wideband electromagnetic absorber.
- Stable against acids, bases and water vapor, and offers long service life.
- Uses materials that, when burned, emit gases that are relatively harmless to humans.
- Fire retardant (NRL Classes 1, 2 and 3; UL-94HBF).

PRODUCT IDENTIFICATIONS

I P - 130 B X
(1) (2) (3) (4) (5)

- (1) TDK electromagnetic absorbers
(2) Base material code (P: Styrofoam)
(3) Length dimensional code (130: 130cm)
(4) Version code
(5) Ferrite material

STANDARD MATERIALS

Material name	Length (cm)	Standard weight* (kg)	Shapes
IP-045BX	45	3	Wedge form
IP-100BX	100	6	Wedge form
IP-130BX	130	6.5	Pyramid form

* Not including the mass of ferrite

TYPICAL ABSORPTION CHARACTERISTICS (VERTICAL INCIDENCE)

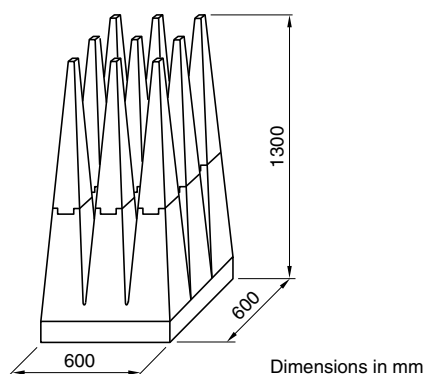
Unit: dB

Material name	70MHz	80MHz	100MHz	500MHz	1GHz	5GHz	18GHz	40GHz
IP-045BX	23	25	23	20	22	25	40	40
IP-100BX	25	30	30	30	30	40	40	40

TYPICAL ABSORPTION CHARACTERISTICS (60° INCIDENCE ANGLE)

Unit: dB

Material name		70MHz	80MHz	100MHz	500MHz	1GHz	5GHz	18GHz	40GHz
IP-130BX	TE	10	10	12	35	45	50	50	50
	TM	20	20	20	35	45	50	50	50

SHAPES AND DIMENSIONS

Please be sure to request delivery specifications that provide further details on the features and specifications of the products for proper and safe use. Please note that the contents may change without any prior notice due to reasons such as upgrading.