

FOR EMC ANECHOIC CHAMBERS

IS-V MATERIAL

It is a composite type radio wave absorber that uses foamed polyethylene as a base material and combines the radio wave absorber IS-V material that utilizes the ohm loss of carbon and the radio wave absorber material IB material that utilizes the magnetic loss of ferrite. The composite type absorber makes the best use of the characteristics of each loss material so that the radio wave absorber IB material efficiently absorbs radio waves in the low frequency region of about 30 to 500MHz and the IS-V material efficiently absorbs radio waves in the high frequency region of 500 MHz or more. It is designed and has excellent radio wave absorption performance from a low frequency of 30MHz.

* Used in combination with ferrite radio wave absorber IB material.

IS-V010

It is a composite type electromagnetic wave absorber for ECM anechoic chambers of 10cm length. It is compact and lightweight, and is ideal for small anechoic chambers such as in-vehicle component testing applications.

IS-V023A2

It is a composite radio wave absorber with a length of 23 cm. It can be used both as a floor radio wave absorber for EMS tests from 80 MHz

FEATURES

- Ultra-wideband electromagnetic absorber.
- Small and lightweight.
- Stable against chemicals and offers long service life.
- Uses materials that, when burned, emit gases that are relatively harmless to humans.
- Fire retardant (UL94 HBF equivalent)

and as a CISPR standard floor radio wave absorber at 1 GHz and above.

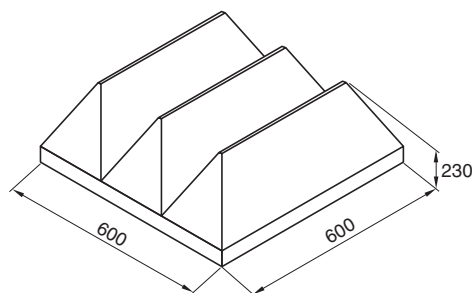


PRODUCT IDENTIFICATIONS

I	S-V	023	A2
(1)	(2)	(3)	(4)

- (1) TDK electromagnetic absorbers
 (2) Base material code (S-V: Polyethylene foam (For IB material combination))
 (3) Length dimensional code (023: 23cm)
 (4) Version code

SHAPES AND DIMENSIONS



Dimensions in mm

STANDARD MATERIALS

Material name	Length (cm)	Standard weight* (kg)	Shape and number of columns	Applicable anechoic chambers
IS-V010	10	1.3	Wedge 5row	Compact
IS-V023	23	2.3	Wedge 3row	Compact
IS-V023A2	23	1.8	Pyramids 8row×8row	Compact (3-meter test range), 3-meter test range, 10-meter method floor

* Not including the mass of ferrite

TYPICAL ABSORPTION CHARACTERISTICS (VERTICAL INCIDENCE)

Unit: dB

Material name	30MHz	50MHz	100MHz	500MHz	1GHz	5GHz	18GHz	40GHz
IS-V010	15	20	20	12	13	13	20	20
IS-V023	15	22	18	13	15	20	25	25
IS-V023A2	15	22	20	12	15	15	20	20