

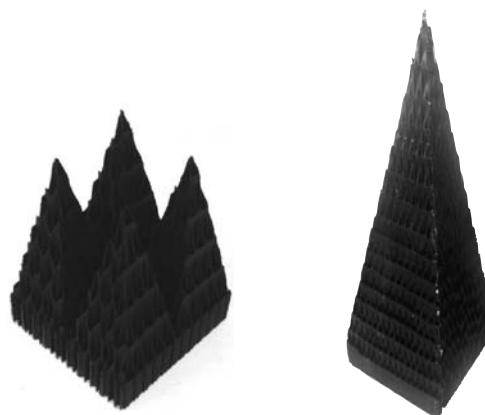
FOR ANECHOIC CHAMBERS USED IN HIGH-POWER TESTS

ICT MATERIAL

A pyramidal electromagnetic absorber with a corrugated structure that consists of an inorganic base and utilizes the ohmic loss of carbon. The corrugated structure is designed to radiate heat efficiently during power irradiations of 1W/cm² or greater.

ICT-015

A 15-cm long pyramidal electromagnetic absorber with a corrugated structure. It delivers excellent electromagnetic absorption performance over a wide band between 3 and 110GHz. Our line up includes the ICT-30 deliver excellent electromagnetic absorption performance starting at low frequency ranges and are available up to 45cm in length. These products are optimally suited for anechoic chambers and small anechoic dark boxes used in high-power tests.



FEATURES

- Ultra-wideband electromagnetic absorber.
- Excellent heat radiation for heat generated during high-power irradiation.
- Constructed of nonflammable materials to withstand the heat generated during high-power irradiation.
- Lightweight and strong.

PRODUCT IDENTIFICATIONS

I C T - 015
 (1) (2) (3) (4)

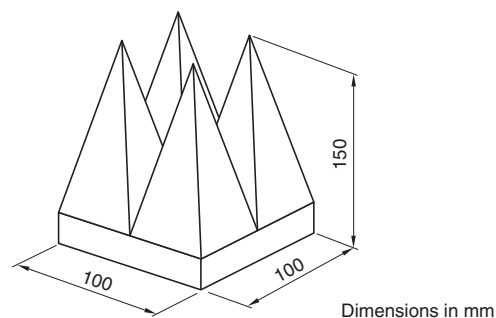
- (1) TDK electromagnetic absorbers
- (2) Base material code (C: Inorganic material)
- (3) For high power
- (4) Length dimensional code (015: 15cm)

STANDARD MATERIALS

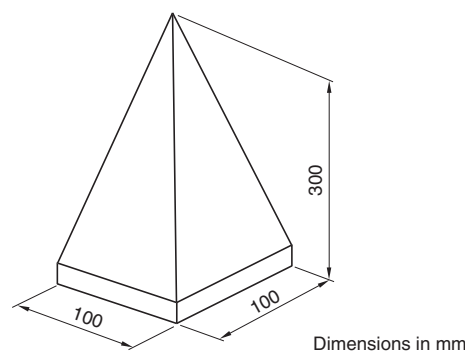
Material name	Standard dimensions (mm)	Standard weight (kg)	Number of pyramids
ICT-015	100x100x150	0.13	2row x 2row=4
ICT-030	100x100x300	0.3	1

SHAPES AND DIMENSIONS

ICT-015



ICT-030



TYPICAL ABSORPTION CHARACTERISTICS (VERTICAL INCIDENCE)

Unit: dB

Material name	1GHz	3GHz	5GHz	10GHz	30GHz	50GHz	110GHz
ICT-015	—	20	25	35	35	35	30
ICT-030	25	35	35	40	40	40	35

EXAMPLE OF RESULTS FROM A HIGH-POWER IRRADIATION TEST

(Heat generation characteristics)

Material name	1.5W/cm ²	5W/cm ²
ICT-015	Tip: 125°C/Bottom: 85°C	—
ICT-030	Tip: 140°C/Bottom: 60°C	Tip: 300°C