

FOR ANECHOIC CHAMBERS USED IN HIGH-POWER TESTS

ICT MATERIAL

This is 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-012

This is a 12-cm long pyramidal electromagnetic absorber with a corrugated structure.

It delivers excellent electromagnetic absorption performance over a wide band between 0.8 and 110GHz. Our line up includes ICT-030 that delivers excellent electromagnetic absorption performance starting at low frequency ranges. 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

ı	С	Т	-	012
(1)	(2)	(3)		(4)

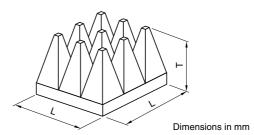
(1) TDK electromagnetic absorbers

(2) Base material(C: Inorganic material)

(3) For high power

(4) Length dimensional code(012: 12cm)

SHAPES AND DIMENSIONS



STANDARD MATERIALS

Material name	Standard dimensions(mm) [L×L×T]	Standard weight(kg)
ICT-012	150×150×120	0.35
ICT-030	300×300×300	3

TYPICAL ABSORPTION CHARACTERISTICS (VERTICAL INCIDENCE)

Unit: dB

Material name	0.3GHz	0.5GHz	0.8GHz	1GHz	3GHz	5GHz	10GHz	30GHz	50GHz	110GHz
ICT-012	_	_	15	20	25	30	35	40	40	35
ICT-030	10	15	20	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-012	Tip: 140°C/Bottom: 80°C	_
ICT-030	Tip: 140°C/Bottom: 60°C	Tip: 300°C

[•] All specifications are subject to change without notice.

[•] It may not be allowed to export these absorbers due to Export Control regulations.