

## FOR MICROWAVE ANECHOIC CHAMBERS

### IS MATERIAL

This electromagnetic absorber consists of a polyethylene foam base and utilizes the ohmic loss of carbon. Not only is the IS electromagnetic absorber capable of absorbing microwaves, it also delivers excellent electromagnetic absorption performance through millimeter and submillimeter waves (through 1THz).

#### IS-030A

This is a 30-cm long pyramidal electromagnetic absorber. It delivers excellent electromagnetic absorption performance over a wide band between 0.8 and 110GHz. It is optimally suited for applications in a wide range of wireless access applications and microwave anechoic chambers for conducting cellular phone related tests.

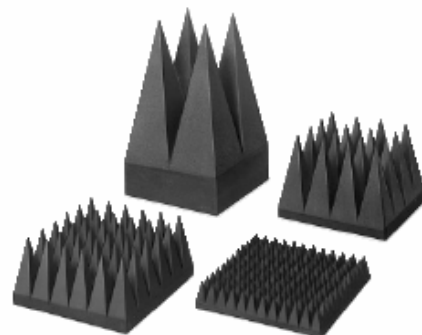
#### FEATURES

- Ultra-wideband electromagnetic absorber
- Excellent electromagnetic absorption performance in the millimeter wave band.
- The tip is designed to reduce creep and deliver stable performance.
- Stable against chemicals 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).
- Walking material are also available.
- Available white end caps can be used to improve the indoor illumination.

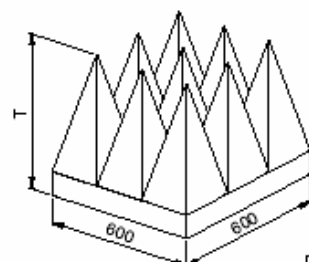
#### PRODUCT IDENTIFICATIONS

I S - 030 A  
 (1) (2) (3) (4)

- (1) TDK electromagnetic absorbers
- (2) Base material(S: Polyethylene foam)
- (3) Length dimensional code(030: 30cm)
- (4) Version code



#### SHAPES AND DIMENSIONS



Dimensions in mm

#### TYPICAL ABSORPTION CHARACTERISTICS (VERTICAL INCIDENCE)

Unit: dB

Material name	Length(mm)	0.3GHz	0.5GHz	0.8GHz	1GHz	3GHz	5GHz	10GHz	30GHz	50GHz	110GHz
IS-005A	50	—	—	—	—	15	20	30	50	50	50
IS-012A	120	—	—	20	20	30	40	55	55	55	50
IS-015A	150	—	—	20	20	35	40	55	55	55	50
IS-023A	230	—	—	23	30	45	50	55	55	55	50
IS-030A	300	—	—	30	35	45	50	55	55	55	50
IS-045	450	—	30	35	40	45	50	55	55	55	50
IS-060	600	—	32	37	42	50	55	55	55	55	50
IS-075	750	25	35	40	45	55	55	55	55	55	50
IS-100	1000	30	40	45	50	55	55	55	55	55	50

• Representative power withstand performance: 100mW/cm<sup>2</sup>

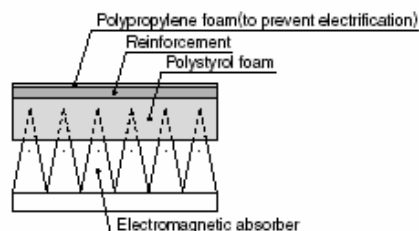
#### ABSORBERS FOR WALKING MATERIAL

##### PRODUCT IDENTIFICATIONS

I S - ○○○ FL  
 (1) (2) (3) (4)

- (1) TDK electromagnetic absorbers
- (2) Base material(S: Polyethylene foam)
- (3) Length dimensional code
- (4) Type(FL: walking material)

#### SHAPES AND DIMENSIONS



- All specifications are subject to change without notice.
- It may not be allowed to export these absorbers due to Export Control regulations.