

## FOR MICROWAVE ANECHOIC CHAMBERS

### IS MATERIAL

An electromagnetic absorber consisting of a polyethylene foam base and utilizing 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-030A2

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 code (S: Polyethylene foam)
- (3) Length dimensional code (030: 30cm)
- (4) Version code

#### TYPICAL ABSORPTION CHARACTERISTICS (VERTICAL INCIDENCE)

Material name	0.1GHz	0.3GHz	0.5GHz	0.8GHz	1GHz	3GHz	5GHz	10GHz	30GHz	50GHz	110GHz
IS-005A	—	—	—	—	—	15	20	30	50	50	50
IS-012A	—	—	—	20	20	30	40	55	55	55	50
IS-015A	—	—	—	20	20	35	40	55	55	55	50
IS-023A	—	—	—	23	30	45	50	55	55	55	50
IS-030A2	—	—	—	30	35	45	50	55	55	55	50
IS-045A	—	—	30	35	40	45	50	55	55	55	50
IS-060	—	—	32	37	42	50	55	55	55	55	50
IS-075	—	25	35	40	45	55	55	55	55	55	50
IS-100	—	30	40	45	50	55	55	55	55	55	50
IS-150	30	35	40	40	45	55	55	55	55	55	50

• Representative power withstand performance: 50mW/cm<sup>2</sup>

Material name	Length (mm)	Standard weight (kg)	Number of pyramids
IS-005A	50	0.7	24row×24row=576
IS-012A	120	1.6	15row×15row=225
IS-015A	150	2.2	15row×15row=225
IS-023A	230	3.0	8row×8row=64
IS-030A2	300	3.3	6row×6row=36
IS-045A	450	4.8	4row×4row=16
IS-060	600	6.0	3row×3row=9
IS-075	750	7.0	2row×2row=4
IS-100	1000	10.5	2row×2row=4
IS-150	1500	9.0	1row×1row=1

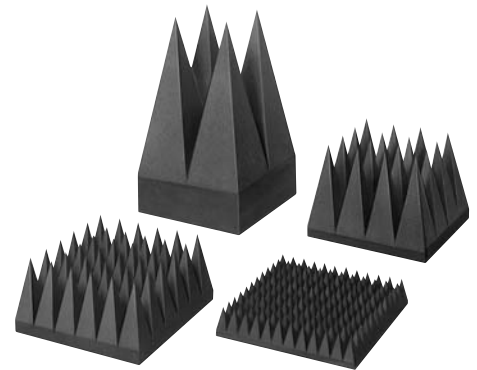
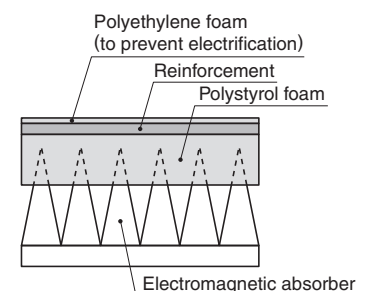
#### ABSORBERS FOR WALKING MATERIAL

##### PRODUCT IDENTIFICATIONS

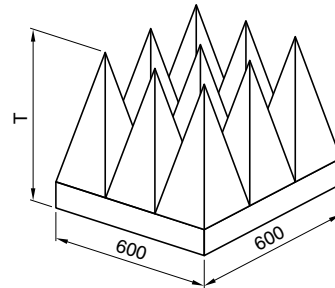
I S - ○○○ FL  
 (1) (2) (3) (4)

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

#### SHAPES AND DIMENSIONS



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Dimensions in mm