



C-RAM FT-10

RoHS
Compliant

TECHNICAL BULLETIN 390-5

THIN CERAMIC FERRITE TILE RF ABSORBER

C-RAM FT-10 is a thin ceramic ferrite tile exhibiting exceptional RF absorbing characteristics in the frequency range of 30 MHz to 2 GHz.

C-RAM FT-10 is a sintered ceramic and is excellent for high power and high temperature application up to the curie point of 475°F. The tile has no outgassing and is ideal in high vacuum applications.

C-RAM FT-10 is frequently used in antenna caps and shielded enclosures to eliminate enclosure resonances during testing or emission measurements.

C-RAM FT-10 is used to line anechoic chambers for radiated emissions (ANSI C63.4) and immunity (IEC 1000-4-3) testing. These tiles can be combined with specially designed urethane foam pyramidal absorbers to extend chamber operation to above 20 GHz -- see Technical Bulletin 390-4 for Hybrid Absorbers. Our engineers can help you with the design of anechoic chambers using either the tiles alone or in conjunction with hybrid absorbers.

TYPICAL PROPERTIES

Color: Dark grey

Thickness: 6.3 mm (0.25 in.)

Dimensions: 100 x 100 mm (3.94 x 3.94 in)
with a 10 mm hole in center of tile

Weight: 324 g = 32.4 kg/m² (6.6 lb/ft²)

Reflectivity:

-dB:	18	25	30	25	20	12	9
@MHz :	30	100	200	400	600	1000	1500

METHOD OF APPLICATION

C-RAM FT-10 must be mounted on a conductive (reflective) backing in order to perform as described. Bond tiles in place using an epoxy or silicone adhesive. Excess adhesive should be pressed out and wiped away so the tiles remain in close physical contact with the reflective back plate in order not to change their rated performance.

Pre-assembled panels may be mounted using screws drilled through the 10 mm hole in the center of each tile. If using this approach, care must be taken not to penetrate the outer shielded enclosure of the room

AVAILABILITY

C-RAM FT-10 tiles are available as individual tiles 100 x 100 mm, or as pre-assembled panels, 600 x 600 mm (23.62 x 23.62 in), in which the tiles have been bonded to an aluminum-faced 5/8 inch sheet of plywood, for ease in mounting to large areas.

The information in this technical bulletin, although believed to be accurate, is not to be taken as a warranty for which Cuming Microwave assumes legal responsibility, nor as permission or recommendation to practice any patented invention without license; it is offered for verification by the customer, who must make the final judgment of suitability for any application.

Document Control No. N-73-000-01203-C
06/15/07 page 1 of 1