



## C-RAM CF

RoHS  
Compliant

### TECHNICAL BULLETIN 360-3

#### HIGH POWER AND HIGH TEMPERATURE MICROWAVE ABSORBER

---

C-RAM CF is a broad band microwave absorbing material capable of operating in the range of -70°F to +650°F, making it ideal for many high power applications. Power handling capability of C-RAM CF depends on the installation and the provisions for air circulation. Up to 10 watts/in<sup>2</sup> can be dissipated when the back of the absorber is open to permit convective air circulation. Up to 25 watts/in<sup>2</sup> can be dissipated when air at 100 ft/min is directed into the base of the conical cavities.

C-RAM CF consists of a matrix of lightweight unicellular glass foam. The

backside of the foam sheet contains a pattern of conical cavities coated with a lossy RF material. C-RAM CF is totally inorganic and will not burn. The material is readily cut to size using a bandsaw. Complex geometries can be machined on a mill. The product may be stacked as bricks into a self-supporting wall or bonded with mortar. C-RAM CF is supplied as 12" x 18" bricks either 2" or 3" thick depending on performance requirements. Front and sides of the material are black. The backside is painted with a reflective high-temperature aluminum paint.

#### TYPICAL PERFORMANCE OF C-RAM CF

Product	Thickness	Weight	1GHz	2.5GHz	3.5GHz	14GHz
C-RAM CF-2	2 in.	3.75lbs.	--	14dB	17dB	17dB
C-RAM CF-3	3 in.	5.25lbs.	14dB	17dB	17dB	17dB

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 of any application.

Document Control No. N-15-000-0099-C  
06/13/07 Page 1 of 1