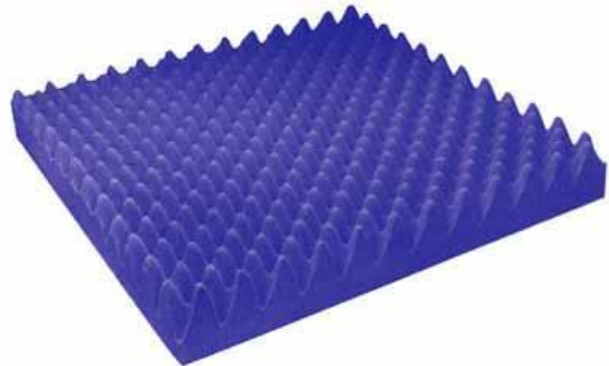




BROADBAND CONVOLUTED ABSORBER

The Broadband Convolute absorbers offered by the company are manufactured from a lightweight urethane foam impregnated with a dielectric material. The front surface is rippled to provide a good match to the impinging wavefront. The geometry in conjunction with the proper loading provides a material with excellent attenuation properties.



The convoluted design, when properly loaded, has proven to exhibit exceptional absorption characteristics in the millimeter range especially at wide angles of incidence. The convoluted material has properties especially desirable for applications requiring high reflectivity performance in conjunction with low forward scattering characteristics for use in RCS chambers in the millimeter wave region.

The CV materials offered are NRL fire retardant versions.

Specifications

| Parameter | | CV-02 | CV-03 | CV-04 |
|---|-----------------------|---------|---------|---------|
| Thickness | In | 2.0 | 3.0 | 4.0 |
| Block Size | In | 24 x 24 | 24 x 24 | 24 x 24 |
| Absorption at Normal Incidence @ 3 GHz | dB | | 20 | 25 |
| Absorption at Normal Incidence @ 6 GHz | dB | 20 | 30 | 30 |
| Absorption at Normal Incidence @ 10 GHz | dB | 30 | 40 | 40 |
| Absorption at Normal Incidence @ 15GHz | dB | 35 | 45 | 46 |
| Absorption at Normal Incidence @ 30 GHz | dB | 45 | 20 | 50 |
| Power | Watts/in ² | 0.5 | 0.5 | 0.5 |

convoluted absorber rev01 1000.doc

RFI Industries Pty Limited

EMC ENGINEERS & LABORATORIES

52 – 54 Holloway Drive
Bayswater Victoria 3153
AUSTRALIA

P.O. Box 254
Bayswater Victoria 3153
AUSTRALIA

t +61 (0)3 8739 6700
f +61 (0)3 8739 6799

e sales@rfi-ind.com.au
e emclabs@rfi-ind.com.au

ABN 66 005 273 950

EMC TESTING
EMC COMPONENTS
MAGNETIC SHIELDING
EMC INSTRUMENTATION
RF ANECHOIC CHAMBERS
RF/EM SHIELDED ENCLOSURES