

RAM-CR002 Cavity Resonance Absorber Material**Product overview**

Shielding Solutions Cavity Resonance Absorbers are a thin magnetically loaded sheet stock having loss at microwave frequencies, while maintaining the desirable characteristics of elastomeric binders. Cavity Resonance Absorbers are designed to exhibit high loss and are intended to be applied to metal surfaces inside microwave cavities to reduce the Q of the cavity. Cavity Resonance Absorbers attenuate energy at normal and high angles of incidence at frequencies from 1 GHz to 20 GHz. The standard elastomer is silicone, but other elastomer formulations are available.

Properties

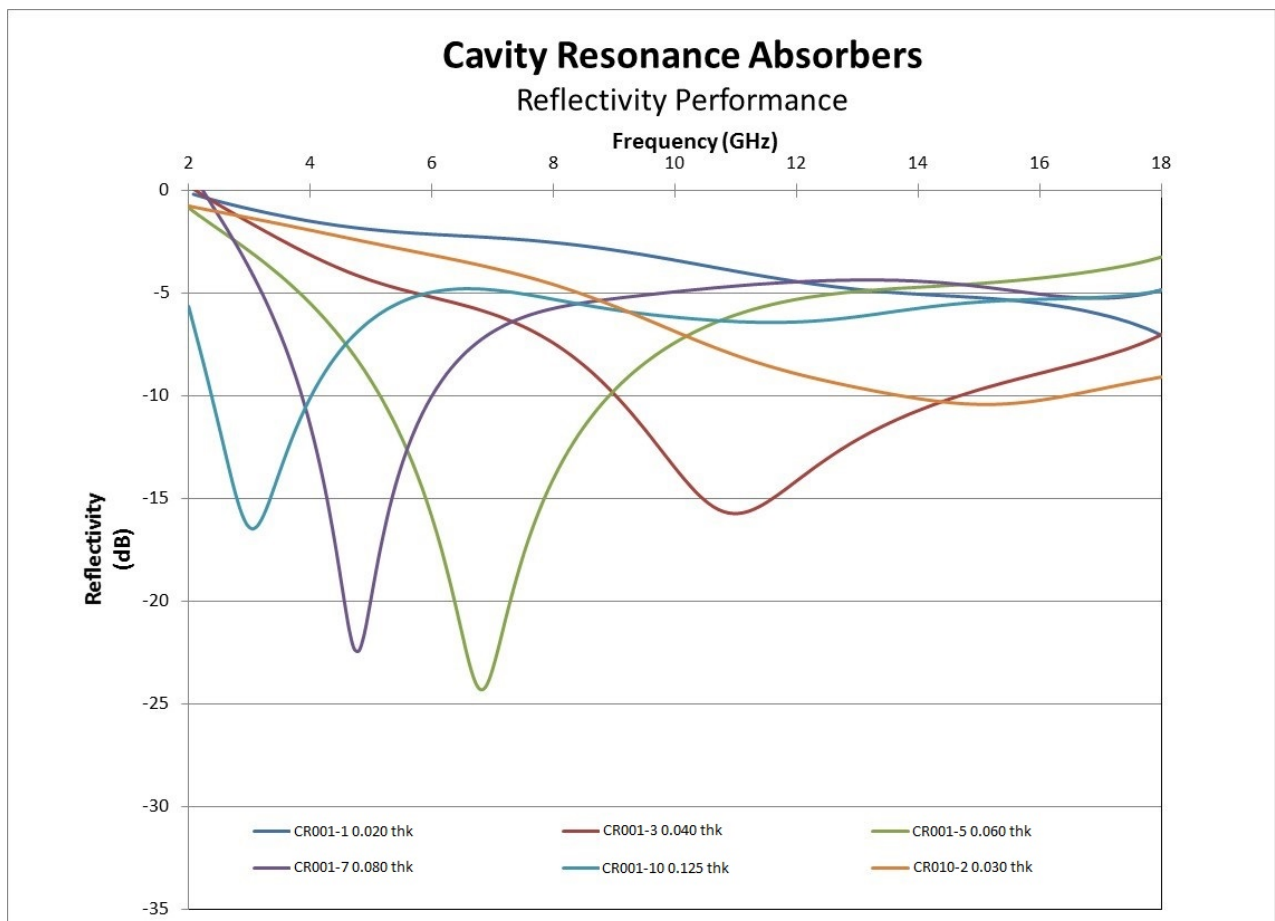
Thickness (mm)	0.25 to 3.2
Flammability Rating (Halogen Free)	None
Adhesive Thickness (mm)	0.12
Operating Temperature (°C)	-50 to 150
Elastomer (Nitrile offers fluid & chemical resistance)	Nitrile
Hardness (Shore A)	60-80
Colour	Dark Grey

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Availability

- Standard sheets are 305 x 305mm (12" x 12") or 610 x 610mm (24"x24") with or without PSA
- Custom sizes available
- Thickness varies depending on frequency desired.
- The material can also be supplied in customized shapes.

Shielding Effectiveness



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Typical Applications

- Resonant Cavity Attenuation
- EMI Reduction
- Rx/Tx Antenna Isolation
- System Isolation
- High Frequency Interference
- Inside a shielding can
- Specular Return (RCS)

Shielding Solutions Ltd
410 Avenue West
Skyline 120
Great Notley
Essex
CM77 7AA

Tel: 01376 330033

Fax:01376 339163

Web: www.shielding-solutions.com