

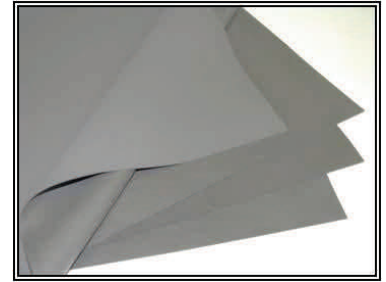


High Loss



Cavity Resonance Absorber

MR42-0008-01



MAST Technologies' High Loss Cavity Resonance Absorber product series is a thin magnetically loaded sheet stock having loss at microwave frequencies, while maintaining the desirable characteristics of elastomeric binders. High Loss Cavity Resonance Absorbers are designed to exhibit high magnetic 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 18 GHz. The standard elastomer is silicone, but other elastomer formulations are available.

APPLICATIONS

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

FEATURES & BENEFITS

- Tough material can survive outdoor exposure
- Very thin for compact locations
- Flexible elastomeric material will not crack
- Support broad frequency range
- RoHS Compliant
- Halogen Free

TYPICAL PROPERTIES

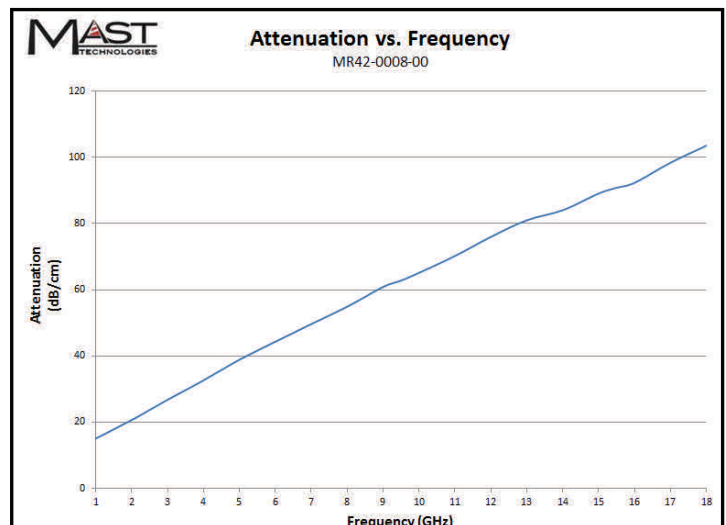
- Thickness: 0.080" (2.0mm)
- Adhesive Thickness: 0.005" (0.12mm) Standard
- Color: Dark Grey
- Elastomer: Silicone
- Operating Temperature: -60°F to 375°F
- Flammability Rating: UL94-V0
- Hardness: Shore A 60-80

PART NUMBERING: MR42-0008-XX

- 00: No PSA backing
- 01: PSA backing
- >01: Die Cut

ELECTRICAL PERFORMANCE

This performance plot illustrates a calculated attenuation versus frequency curve based on the materials' complex permeability and permittivity. Additional electrical test data may be available upon request.



METHOD OF APPLICATION

The primary method of application for Cavity Resonance Absorbers is utilizing a Pressure Sensitive Adhesive (PSA) backing. MAST proudly uses 3M transfer tapes on its Cavity Resonance Absorbers. Contact MAST technical representatives for a datasheet on the PSA.

Other liquid and paste adhesive may be recommended. Contact a MAST technical representative for more information.

AVAILABILITY

- Standard Sheet Sizes: 12" x 12" (305 x 305mm)
- 24" x 24" (610 x 610 mm)
- Format: Sheets, Die Cut, Kiss Cut Pads

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