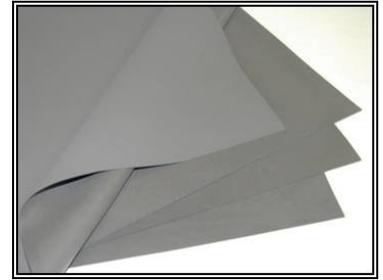




# Cavity Resonance Absorber

MR21-0012-00



MAST Technologies' 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. 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.

## 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

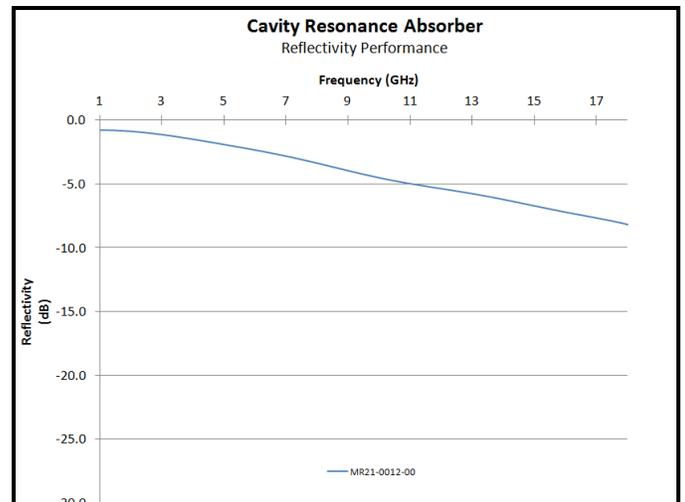
- Thickness: 0.010" (0.25mm)
- Adhesive Thickness: 0.005" (0.05mm)
- Color: Dark Grey
- Elastomer: Silicone
- Operating Temperature: -60°F to 375°F
- Flammability Rating: Not rated
- Hardness: Shore A 60-80

## PART NUMBERING: MR21-0012-XX

- 00: No PSA backing
- 01: PSA backing
- >10: Die Cut

## ELECTRICAL PERFORMANCE

This performance plot illustrates the reflection loss performance of this material. Reflection loss is measured on an NRL arch, for more information on the NRL arch test set-up, please refer to Tech Bulletin 101. 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 data-sheet 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 305 mm)
- 24" x 24" (610 x 610 mm)
- Format: Sheets, Die Cut, Kiss Cut Pads

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All information on this data sheet is based on laboratory testing and is not intended for design purposes. MAST Technologies makes no representations or warranties of any kind concerning this data. For part number quality assurance specifications, please contact a MAST Technologies technical representative.