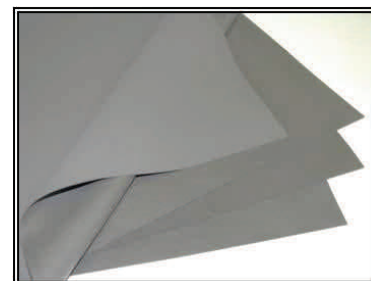




Supercharged 1 GHz Absorber



Part Number: MR41-0009-00



MAST Technologies' Tuned Frequency Absorber product series is a thin magnetically loaded sheet stock. Tuned Frequency Absorbers, also known as resonant frequency absorbers, provide great reflection loss at a discrete frequency, typically offering 20dB of attenuation. Tuned Frequency Absorbers offer a narrowband of absorption, typically +/-10% of the resonant frequency, so are best used when a single discrete frequency is trying to be absorbed. MAST Engineers can tune an absorber to any frequency from 0.5 to 40 GHz, by simply changing the formulation and thickness.

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

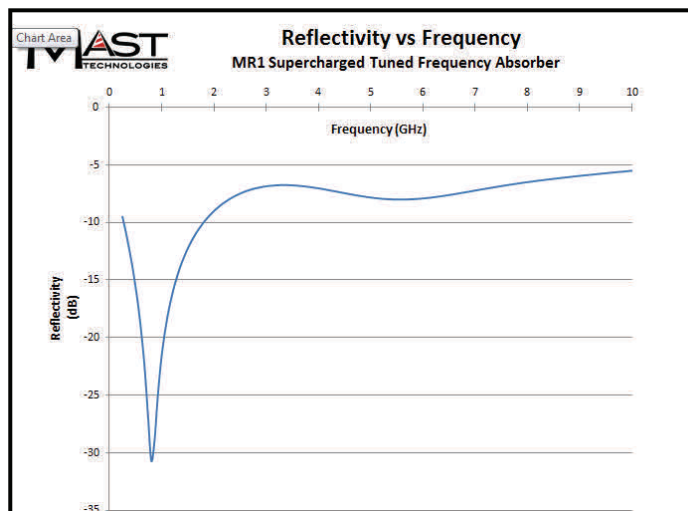
- Thickness: 0.102" (2.6 mm)
- Adhesive Thickness: 0.005" (0.12mm) Standard
- Color: Dark Grey
- Elastomer: Silicone
- Operating Temperature: -60°F to 375°F
- Flammability Rating: Not Rated
- Hardness: Shore A 60-80

PART NUMBERING: MR41-0009-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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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.