



## MAJRabsorber™

### Broadband Microwave Absorber Material

#### Product Summary

MAJRabsorber™ is a broadband microwave absorber material performing in a broadband range from 1 GHz to 18 GHz and is non-conductive, electromagnetically reflective, and corrosion resistant.

#### Product Application

MAJRabsorber™ is a thin, flexible, and highly resistive broadband microwave absorber material. This magnetically loaded material reduces EMI emissions and crosstalk, reflections, and damps electronic cavity resonances.

MAJRabsorber™ is a unique product that incorporates an internally centered electromagnetically reflective surface therefore very useful:

- Between circuit boards for effective microwave absorption on both sides without concern of shorting electronic components. Since it is flexible and tear resistant, MAJRabsorber™ can be used with flex or rigid circuit boards and cut to any configuration.
- As a stand-alone free space broadband electromagnetic microwave absorber.
- As a free space “Faraday cage” type shield to wrap around an emission source to shield and reduce “Q”.
- Will enable a non-conductive molded plastic enclosure to be used as a semi shielded enclosure reducing weight and cost.

#### Technical Specifications

- Operating Temperature: -50°C to 190°C.
- Hardness: Shore A 60-80.
- Standard thickness: 0.060 in. (1.52mm).
  - Custom thicknesses available.
- Color: Dark Gray.
- Available in sheets, rolls, or flash-cut into a specific shape with or without pressure sensitive adhesive (PSA).

Testing with identical horn antennas was used to determine attenuation (dB) over a broadband frequency (GHz) range in a far field and free space condition.

The test set-up without the MAJRabsorber™ was used to establish a 0dB reference trace across the full frequency range of 1 GHz to 18 GHz. A centered sheet of MAJRabsorber™ was placed between antennas to establish the attenuation (dB) vs. frequency (GHz) plot.

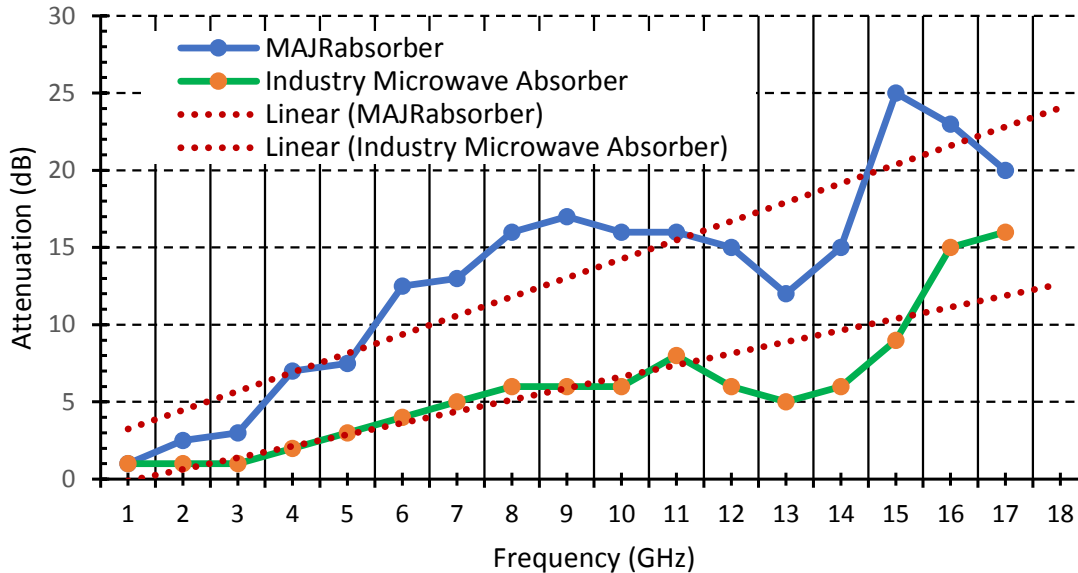
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*Contact us today to find how prompt, courteous service and fast turnaround will make the “MAJR” difference in your product requirements.*

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## MAJRabsorber vs. Industry Standard Microwave Absorber



## The Six Benefits of the MAJRabsorber™ You Must Know to Appreciate

**MAJRabsorber™ is not just another entry into the absorber material marketplace. It is truly the next generation in RF absorbers.**

- Different than any other product on the market**, the physical configuration of our RF absorber material incorporates the flexible conductive layer in between layers of non-conductive material layers. Because of this...
- You can place it between circuit boards**, creating improved circuit crosstalk immunity but, being non-conductive, the RF absorber material will not short out electronic components.
- The base RF absorber material exhibits higher EMI/RFI attenuation** than others on the market that we have tested in the same thickness.
- Making it even more effective**, the flexible center conductive layer provides an electromagnetically reflective surface that reflects EMI/RFI energy back through the RF absorber material.
- MAJRabsorber™ material is very tear resistant** because of the flexible center conductive layer. This makes it easier to handle during production and more robust overtime.
- It very cost competitive** because MAJRabsorber™ can be produced in roll form and custom cut to your specifications.

**MAJRabsorber™** works well under extreme temperature conditions and is non-conductive, corrosion resistant, highly resistive and can come with or without pressure sensitive adhesive (PSA) on one or both sides.



780 South Street  
Saegertown, PA 16433

Web address: [www.majr.com](http://www.majr.com)  
e-mail: [sales@majr.com](mailto:sales@majr.com)

(814) 763-3211  
(877) MAJR PRO Toll Free  
(877-625-7776)  
(814) 763-2952 Fax  
(888) 763-2952 Toll Free Fax