

## Microwave Absorber Materials (6500 Series)

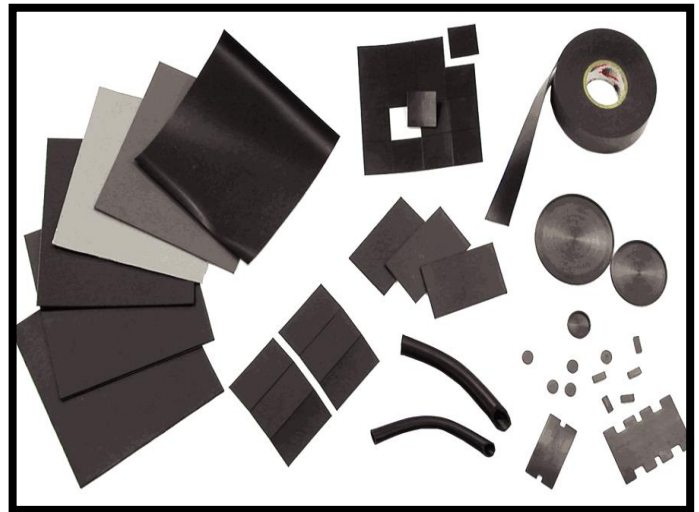
### 6501 broadband 10 MHz to 8 GHz Material

#### Product Summary

The 6501 product is an RoHS Compliant electromagnetic absorbing material available in sheet stock or as die cut parts. The absorber performs in a range from 10 MHz to 8.0 GHz.

#### Product Application

The 6501 material is used in a wide variety of markets such as Cellular and telecom, electronic device, radar cross section reduction, and a variety of other antenna and electronic enclosure applications. The absorber eliminates unwanted RF energy at the source to prevent re-radiation and reflections when used in an enclosure. Since it exhibits broad band performance it suppresses harmonics of any order. A variety of material thickness are available that exhibit various transmission loss throughout a frequency range of 10MHz to 8GHz; see product technical data below.



The absorber material is elastomer based which is thin, flexible, and easy to install, even in the tightest of applications. The absorber can be supplied by the sheet (400mm) square, die cut, water jet cut to your specification or hand-cut to any shape and may also be cut to "patch" sizes for instant localized near field RF suppression. In addition, for installation ease the absorber can be supplied with pressure sensitive adhesive.

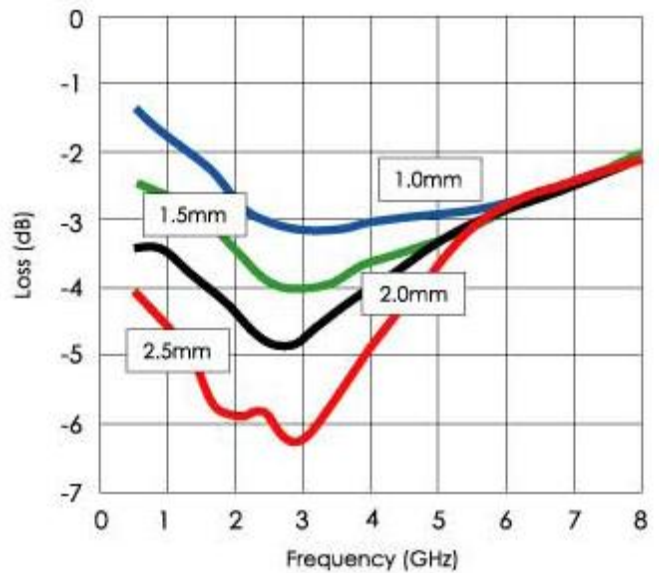
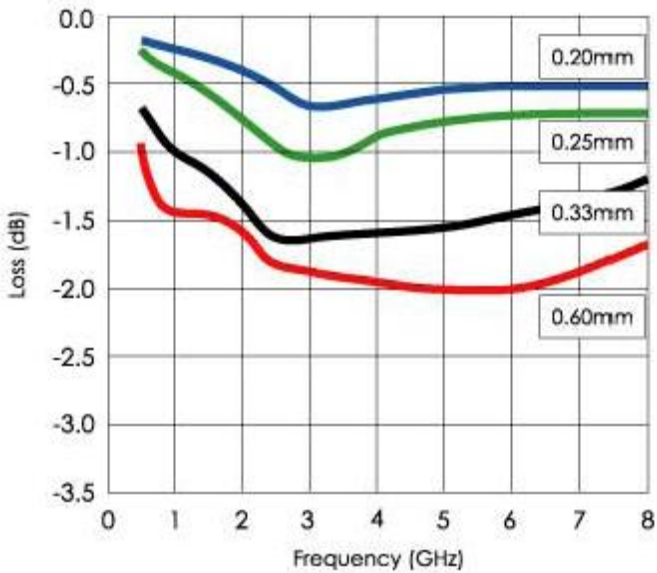
#### Product Technical Data

6501 Thickness	0.9 GHz	1.8 GHz	2.4 GHz
0.22 mm	-0.22 dB	-0.35 dB	-0.50 dB
0.25 mm	-0.40 dB	-0.63 dB	-0.84 dB
0.33 mm	-0.90 dB	-1.25 dB	-1.56 dB
0.6 mm	-1.32 dB	-1.49 dB	-1.75 dB
1.0 mm	-1.70 dB	-2.35 dB	-3.04 dB
1.5 mm	-2.51 dB	-3.32 dB	-3.85 dB
2.0 mm	-3.31 dB	-4.21 dB	-4.66 dB
2.5 mm	-4.46 dB	-5.79 dB	-5.64 dB

Operating Temperature range -20 to +80 deg. C

Volume Resistivity  $10^6$  Ohm - cm

## Microwave Absorber Materials (6500 Series) 6501 broadband 10 MHz to 8 GHz Material (Cont.)



**Test Standard MIL-A17161D**

### Features:

- The 6501 material is ultra soft and can be applied to irregular surfaces.
- Incorporation of a self adhesive backing for ease of use in general to high altitude / vibration applications.

**HUBZONE** Certified and Veteran Owned Manufacturer

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