



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## High-Loss, Thin, Elastomeric Microwave Absorber

### HIGH-LOSS ELASTOMERIC ABSORBER



Eccosorb GDS is a thin, flexible, high-loss, magnetically loaded, electrically non-conductive silicone rubber sheet. It is designed for the frequency range from 6 GHz and above. The material is impervious to moisture and can be subjected to high altitudes, with no adverse effects. Being a silicone based absorber, it has low outgassing properties for space applications.

### FEATURES AND BENEFITS

- High power performance
- Low outgassing properties

### MARKETS

- Commercial Telecom
- Security and Defense
- Automotive and Industrial Electronics

### SPECIFICATIONS

TYPICAL PROPERTIES	ECCOSORB GDS
Frequency Range (GHz)	≥ 6 GHz
Max Service Temperature °C (°F)	170 ( 338)
Hardness (Shore A)	>70
Volume Resistivity (ohm-cm)	> 10 <sup>11</sup>
Weight kg/m <sup>2</sup> (lbs/ft <sup>2</sup> )	2.9 (0.6)
Outgassing (%TML) (%CVCM)*	0.2/0.08

*Data for design engineer guidance only. Observed performance varies in application. Engineers are reminded to test the material in application.*

\* Outgassing data per ASTM E595-07; criteria for acceptability is 1.00% TML and 0.10% CVCM.

### APPLICATIONS

- When placed within a cavity Eccosorb GDS has proven to be very effective at dampening resonances due to the absorbers high permittivity and permeability.
- When bonded to a metal surface Eccosorb GDS will significantly reduce the reflectivity of metal objects or structures due to the flow of microwave currents on that surface.
- It can be applied to antenna elements, microwave dishes, the inner or outer surfaces of waveguides for isolation, attenuation or modification of radiating patterns.
- When applied to side or even rear surfaces of certain objects Eccosorb GDS will cause a significant reduction in “head on” reflectivity or backscattering.
- Although not intended as a specular absorber, it will reduce metal plate reflectivity by a few dB.

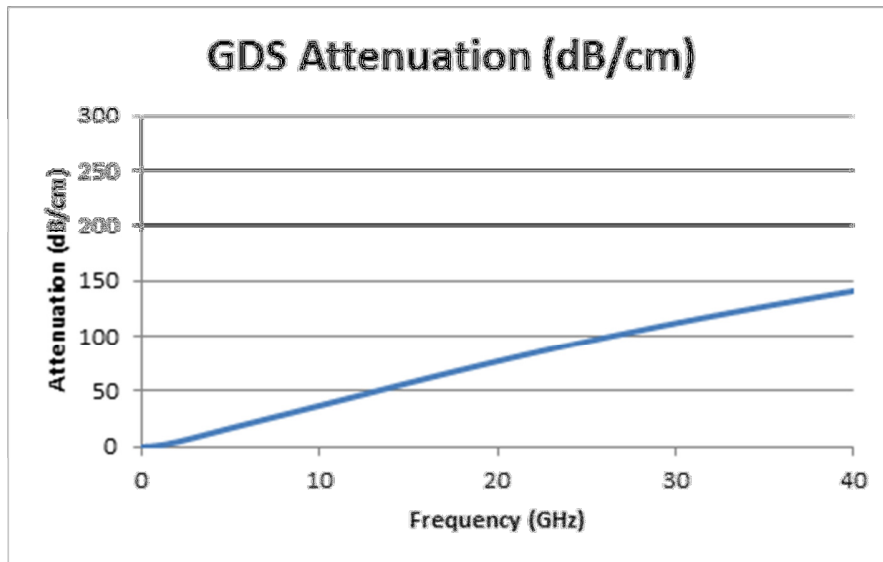
### AVAILABILITY

- Standard sheets are 305 x 305x0.76mm ( 12”x12”x0.030”)
- Eccosorb GDS can be supplied with a Pressure Sensitive Adhesive.
- On special order, other sizes, thicknesses and customer specified configurations can be supplied.

## INSTRUCTIONS FOR USE

- Eccosorb GDS is designed to function directly in front of a metallic surface.
- The material can be bonded by use of an RTV silicone based adhesive in conjunction with a suitable primer.
- To obtain a strong bond, the metallic surface should first be thoroughly cleaned with a degreasing solvent, apply a thin coat of primer to the dried surface and apply a RTV silicone adhesive.
- Eccosorb GDS can be readily cut with a sharp knife and template. It is a very flexible material and conforms to contoured surfaces.

Typical Attenuation Eccosorb GDS



RFP-DS-GDS 112315

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