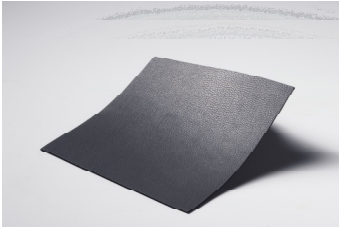


High-Loss, Thin, Elastomeric Microwave Absorber

HIGH-LOSS ELASTOMERIC ABSORBER

Eccosorb GDS-U is a thin, flexible, high-loss, magnetically loaded, electrically non-conductive, broadband urethane absorber. It is designed for the frequency range from 6 GHz and above. The main advantages of the polyurethane version are its ease of bonding to various substrates and the availability of a self-adhesive version.



FEATURES AND BENEFITS

- High mechanical strength
- Excellent abrasion resistance
- Silicone free

MARKETS

- Commercial Telecom
- Automotive and Industrial Electronics

SPECIFICATIONS

TYPICAL PROPERTIES	ECCOSORB GDS-U
Frequency Range	≥ 6 Ghz
Service Temperature °C (°F)	-40 to 120 (-40 to 248)
Hardness Shore A	86
Density g/cc	3.5
Volume Resistivity (Ohm-cm)	>10 ¹¹

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

APPLICATIONS

- When placed within a cavity, Eccosorb GDS-U has proven to be very effective at dampening resonances due to the absorbers high permittivity and permeability as well as high loss values, which in turn reduces the overall VSWR.
- It will significantly improve the operation of microwave devices by absorbing stray microwave radiation.
- Eccosorb GDS-U will reduce the reflections from metal structures through the absorption of surface currents. Applications include power amplifiers, oscillators, down/up converters and LNB's. It is also utilized to modify antenna patterns, cover antenna feed supports, line antenna caps to reduce reflections and improve the isolation of sensitive RF devices.
- Although not intended as a specular absorber, it will reduce metal plate reflectivity by a few dB.

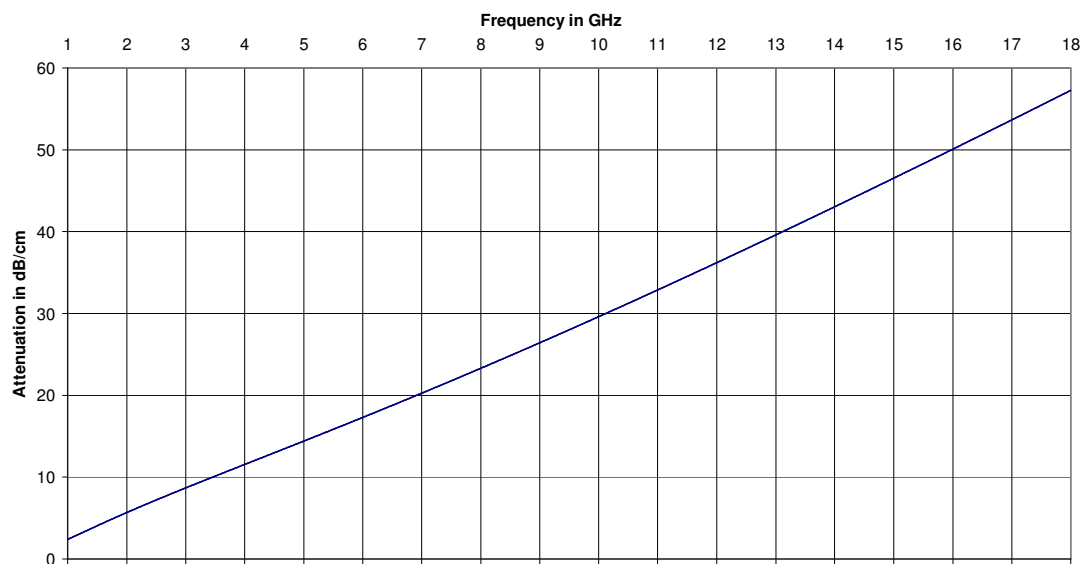
AVAILABILITY

- Standard sheets are 305 mm x 305 mm (12"x12").
- Standard thickness is 0.76mm (.030")
- It can be supplied with a pressure sensitive adhesive (-SA suffix stands for Self-Adhesive).
- On special order other sizes, thicknesses and customer specified configurations can be supplied. This includes die cut and kiss cut parts to reduce installation labor by allowing quick assembly..

INSTRUCTIONS FOR USE

- Eccosorb GDS-U is designed to function directly in front of a metallic surface.
- If this is not the case, a metallic foil should first be bonded to the object.
- To obtain a strong bond of the absorber to the object, the metallic surface should first be thoroughly cleaned with a degreasing solvent. Epoxy and acrylic adhesives are recommended or use the self-adhesive version
- Eccosorb GDS-U can be readily cut with a sharp knife and template. It is a very flexible material and will conform to contoured surfaces

Typical Attenuation of Eccosorb GDS-U



RFP-DS-GDS-U 120315

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