

ECCOSORB® GDS-U

BROADBAND, HIGH-LOSS, MICROWAVE ABSORBER

Description:

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 to 35 GHz.

The main advantages of the polyurethane version are its ease of bonding to various substrates and the availability of a self-adhesive version.

Further they offer high mechanical strength and excellent abrasion resistance.

Will withstand temperatures from -40°C to 120°C.

Application:

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.

Physical Properties:

Colour	grey
Dimensions (mm)	305 x 305
Nominal thickness (mm)	0.76
Weight (kg/m ²)	2.6
Specific gravity	3.5
Volume Resistivity (Ohm-cm)	>10 ¹¹
Hardness (Shore A)	86

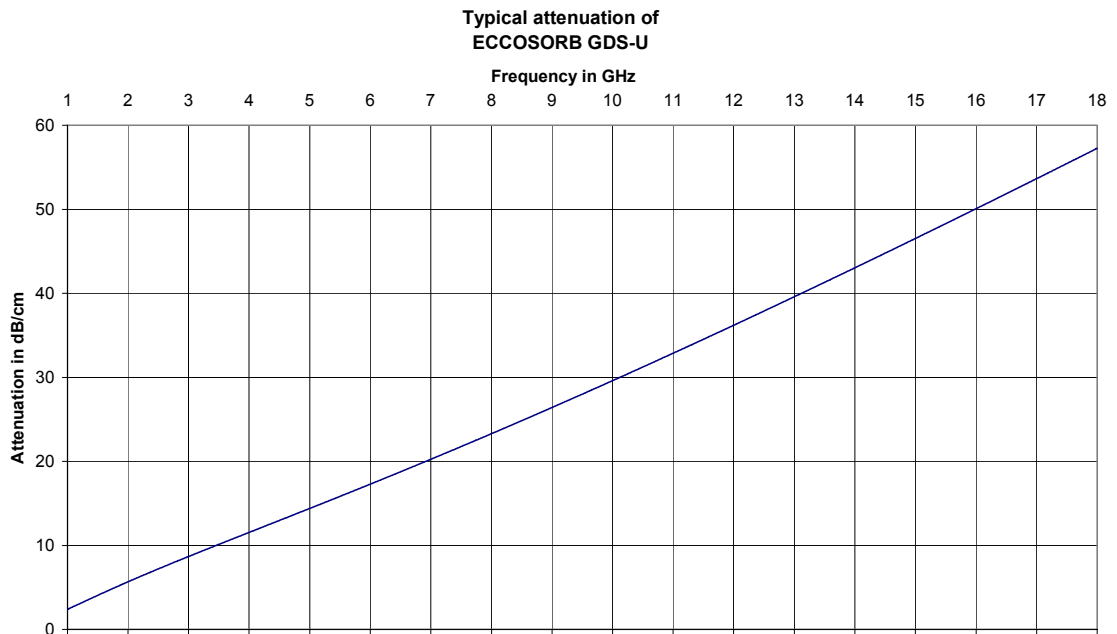
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Electromagnetic Properties:



Availability:

Eccosorb GDS-U is available in square sheets of 305X305X0.76mm. It can be supplied with a pressure sensitive adhesive designated as Eccosorb GDS-U-SA, where the -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 labour 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. As it is a homogeneous material, there is no distinction between its front and back face. To obtain a strong bond of the absorber to the object, the metallic surface should be first 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.



Safety Considerations: It is recommended to consult the EMERSON & CUMING MICROWAVE PRODUCTS product literature, including material safety data sheets, prior to use EMERSON & CUMING MICROWAVE PRODUCTS products. These may be obtained from your local sales office.
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2007/10 - V01/1
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