

ECCOSORB® SLJ

DUAL-BAND FLEXIBLE RUBBER SHEET ABSORBER

Description:

Eccosorb SLJ is a flexible nitrile rubber-based flat absorber and is designed to have minimum reflection at 2 frequency bands i.e. X- and Ku bands. Between these 2 resonant frequencies, reflectivity remains typically below -10dB. The nitrile matrix is a very durable material. It has good outdoor weathering characteristics, good resistance to moisture and hydraulic fluids and has proven excellent performance in naval applications.

Water and salt water immersion tests showed after 1 month immersion a weight increase of only 0.5 - 0.7 %. No influence on reflectivity was noticed.



Application:

Eccosorb SLJ is suited for applications requiring reflectivity reduction at several frequencies in harsh environments, particularly on objects with contoured shapes. Typically used on masts of ships, wall's, etc. to reduce reflections and echoes to nearby antennas or attached to vehicles to reduce overall radar signature.

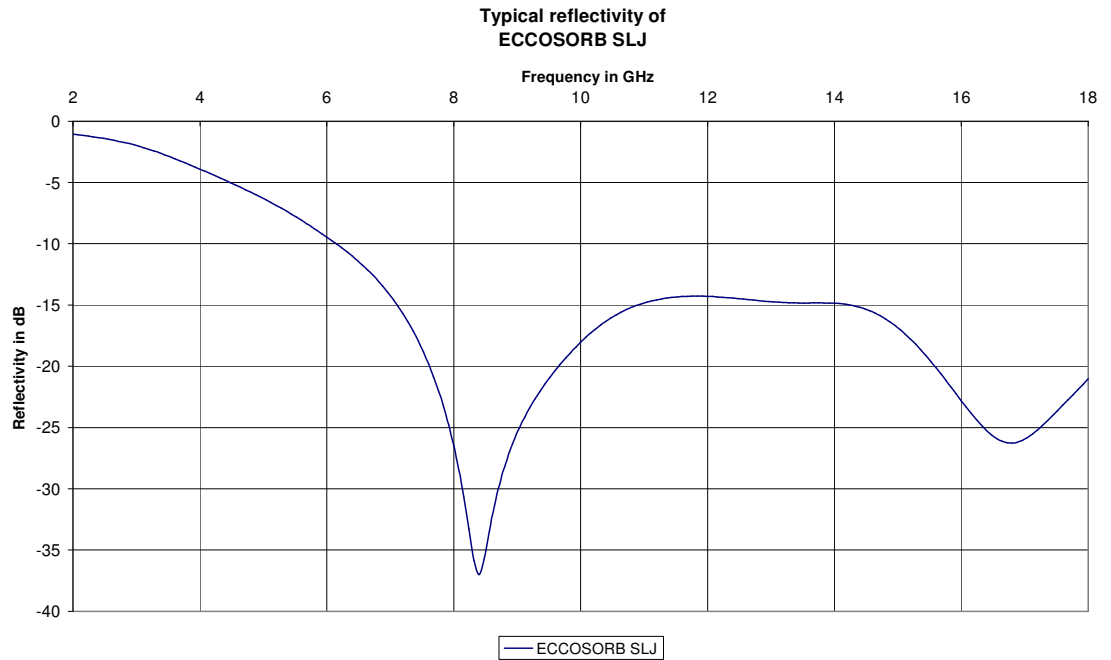
Physical Properties:

Colour	Beige
Dimensions (mm)	600x600 x 6.7
Service temperature (°C)	-60 to 135
Surface weight (kg/m ²)	8.0
Basic composition	nitrile rubber
Tensile strength (MPa)	2
Elongation (%)	580
Tear strength (N/cm)	190
Water absorption (1 month) (%)	< 1
Salt water absorption (1 month) (%)	< 1
Outdoor exposure	good
Oil immersion	good
MIL-STD-810D & MIL-A-17161D:	
-Vibration test	passes
-Temperature-altitude-humidity test	passes
-Salt fog test	passes

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Electromagnetic Properties:



Availability:

Eccosorb SLJ is available as flat rubber sheets of 600 mm x 600 mm.

Instructions for use:

The design of SLJ requires that its back surface is in intimate contact with a conductive surface. If this is not the case, one must first bond a conductive layer, such as aluminium foil, to the surface of the substrate or the back surface of the absorber.

To obtain a strong bond of the absorber to the object, the metallic surface should first be thoroughly cleaned with a degreasing solvent.

Bonding can be done with a suitable adhesive for nitrile rubber such as acrylic based adhesives.



**ELECTRONIC
SERVICE GmbH**

Hohe Straße 3 | 61231 Bad Nauheim
T +49 (0)6032 9636-0 | F +49 (0)6032 9636-49
info@electronic-service.de | www.electronic-service.de



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Emerson & Cuming Microwave Products N.V., Bell Telephonenlaan 2B, B-2440 Geel, Belgium.

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