

ECCOSORB® SLJ

DUAL-BAND FLEXIBLE RUBBER SHEET ABSORBER

Description:

The 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

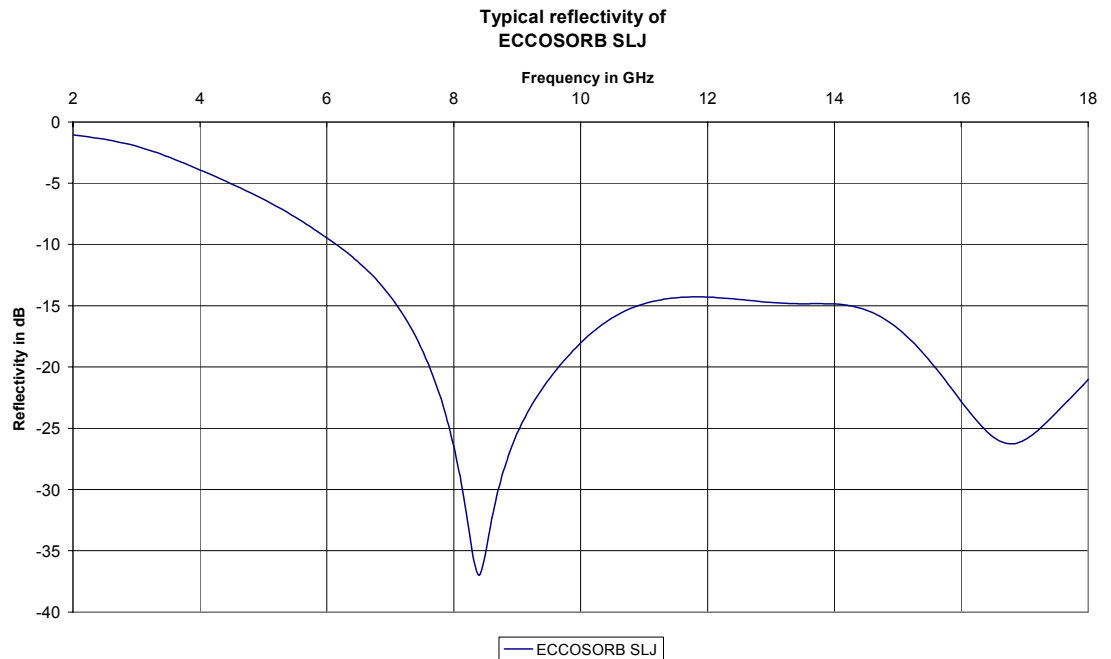
Emerson & Cuming Microwave Products N.V.
 Nijverheidsstraat 7A – B-2260 Westerlo – Belgium
 Tel: +32 14 56 25 00 – Fax +32 14 56 25 01
 sales@eu.eccosorb.com - www.eccosorb.com



ECCOSORB® SLJ

DUAL-BAND FLEXIBLE RUBBER SHEET ABSORBER

Electromagnetic Properties:



Availability:

ECCOSORB SLJ is available as flat rubber sheets 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.



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.

WARRANTY : Values shown are based on testing of laboratory test specimens and represent data that falls within the normal range of properties of the material. These values are not intended for use in establishing maximum, minimum or ranges of values for specification purposes. Any determination of the suitability of the material or any use contemplated by the user and the manner of such use is the sole responsibility of the user who must assure that the material as subsequently processed meets the needs of this particular product or use. We hope the information given here will be helpful. It is based on data and knowledge considered to be true and accurate and is offered for the user's consideration, investigation and verification but we do not warrant the results to be obtained. Please read all statements, recommendations or suggestions in conjunction with our conditions of sale INCLUDING THOSE LIMITING WARRANTIES AND REMEDIES which apply to all goods supplied by us. We assume no responsibility for the use of these statements, recommendations or suggestions nor do we intend them as a recommendation for any use which would infringe any patent or copyright.

2007/06 - V01/1

Emerson & Cuming Microwave Products N.V., Nijverheidsstraat 7A, B-2260 Westerlo, Belgium.

ECCOSORB, ECCOSTOCK, ECCOSHIELD, ECCOLENS, ECCOPAD are registered trademarks of EMERSON & CUMING MICROWAVE PRODUCTS N.V.