

ECCOSORB[®] BSR

HIGH LOSS, THIN, ELASTOMERIC MICROWAVE ABSORBER

Description :

Eccosorb BSR is a thin, flexible, high-loss, electrically non-conductive silicone absorber.

Eccosorb BSR is available in two types, Eccosorb BSR-1 and Eccosorb BSR-2, both tuned to different frequency areas.

The product is effective in reducing surface currents in cavity resonance applications in the GHz to mm wave frequency range.

It is available in a wide range of thicknesses to suit an extremely broad range of applications including very small microwave cavities typically seen in higher frequencies.

Being a silicone based absorber, it has low outgassing properties and high temperature resistance. Service temperature ranges from -55 to 160°C.

Application :

Eccosorb BSR is effective in reducing surface currents, cavity resonances, coupling and to some extent specular reflections due to the absorbers high permittivity and permeability as well as high loss values.

It will significantly improve the operation of microwave devices by lowering the Q of cavities.

Eccosorb BSR will reduce the reflections from metal structures through the absorption of surface currents.

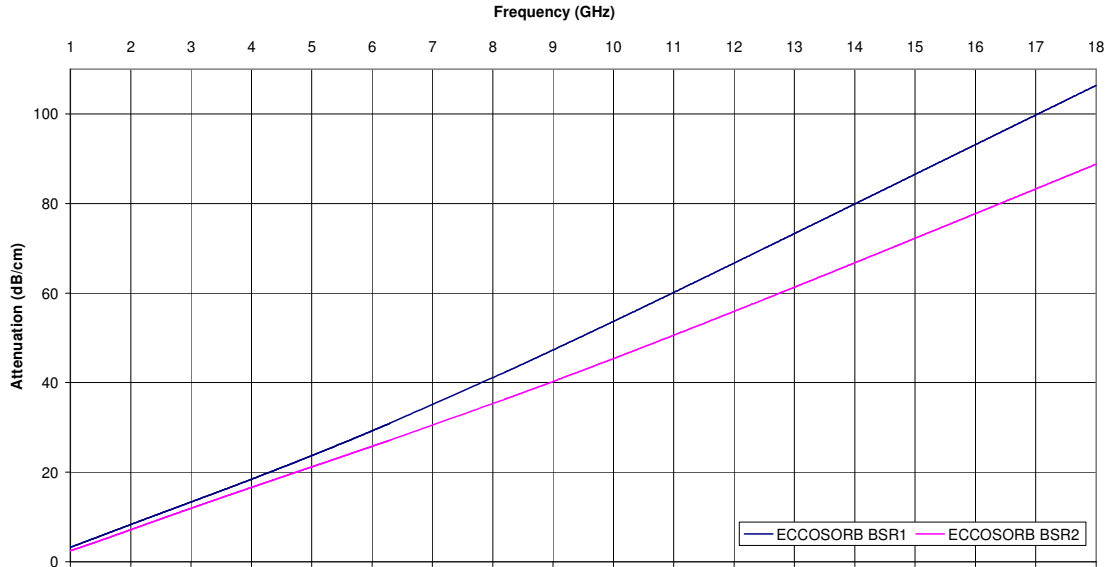
Applications include power amplifiers, oscillators and down/up converters.

Physical Properties :

	BSR
colour	Grey
Dimensions (mm)	305 x 305
Thickness range (mm)	0.25 to 2.0
Hardness (Shore A)	75
Elongation (%)	50
Tensile strength (Mpa)	5.0

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Electromagnetic Properties :**Typical attenuation ECCOSORB BSR****Availability :**

Eccosorb BSR is available in sheets of 305 mm x 305 mm

Standard thicknesses are 0.25mm, 0.50mm, 1.0mm, 1.5mm and 2mm , respectively designated as Eccosorb BSR-10, BSR -20, BSR-40, BSR-60 and BSR-80

The products are also available in other sizes, thicknesses and customer specified configurations upon request. This includes die cut and kiss cut parts to reduce installation labour by allowing quick assembly.

Instructions for use :

Eccosorb BSR 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.

The material can be bonded by use of a RTV silicone based adhesive in conjunction with a suitable primer.

Eccosorb BSR can be readily cut with a sharp knife and template.

It is a very flexible material and will conform to mild curvatures.



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.

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