

High-Loss, Thin, Elastomeric Microwave Absorber

HIGH-LOSS ELASTOMERIC ABSORBER



Eccosorb MCS is a thin, flexible, high-loss, magnetically loaded, electrically non-conductive silicone rubber sheet. It is designed for the frequency range from 800 MHz to 18 GHz. The material is impervious to moisture and can be subjected to high altitudes with no adverse effects. Being a silicone based absorber, it has low out-gassing properties for space applications.

FEATURES AND BENEFITS

- High power performance
- Low outgassing properties
- High magnetic loss

MARKETS

- Commercial Telecom
- Security and Defense
- Automotive and Industrial Electronics

SPECIFICATIONS

TYPICAL PROPERTIES	ECCOSORB MCS
Frequency Range (GHz)	0.8 to 18
Max Service Temperature °C (°F)	170 (338)
Fire Retardancy	UL94 V-0
Hardness (Shore A)	>80
Volume Resistivity (ohm-cm)	2×10^8
Weight kg/m ² (lbs/ft ²)	4.4 (0.9)
Relative Impedance	0.66 – 0.23
Tensile Strength (MPa)	>3.5
Elongation (%)	>20
Dielectric Strength (volts/mil)	>20
Outgassing (%TML) (%CVCM)*	0.3/0.05

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

* Outgassing data per ASTM E595-07; criteria for acceptability is 1.00% TML and 0.10% CVCM.

APPLICATIONS

- When placed within a cavity, Eccosorb MCS 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 is designed for the suppression of surface currents over a wide range of frequencies.
- It can be used for the suppression of creeping waves and reduction of cavity resonances in microwave modules.
- It is also useful in reducing RF coupling of antennas and microwave components.

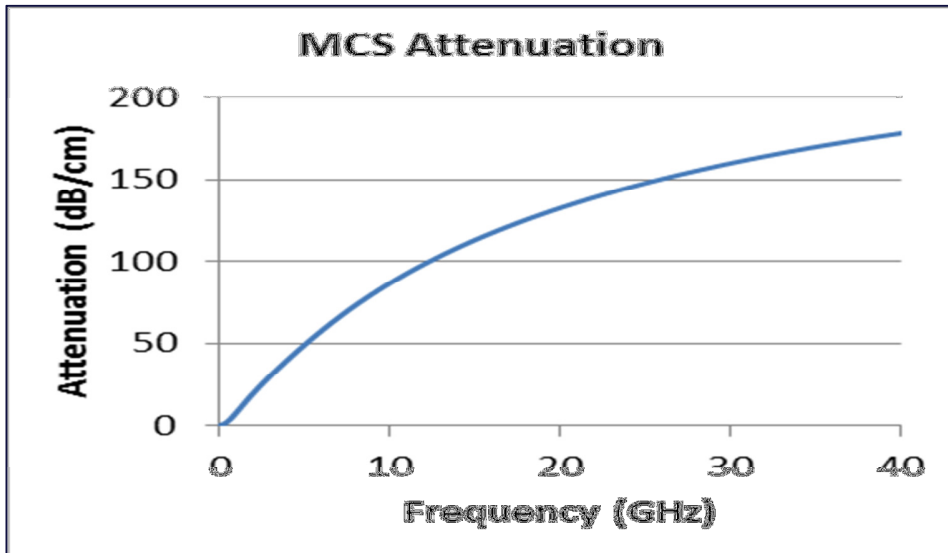
AVAILABILITY

- Standard sheets are 305 x 305mm (12"x12"), standard thickness is 1 mm (.040")
- It can be supplied with a Pressure Sensitive Adhesive (PSA)
- Eccosorb MCS is available in other sizes, thicknesses and customer specified configurations upon request.

INSTRUCTIONS FOR USE

- Eccosorb MCS is designed to function directly in front of a metallic surface.
- The material can be bonded by use of an RTV silicone based adhesive in conjunction with a suitable primer.
- To obtain a strong bond of the absorber to the object, the metallic surface should first be thoroughly cleaned with a degreasing solvent.
- Eccosorb MCS can be readily cut with a sharp knife and template.
It is a very flexible material and conforms to contoured surfaces.

Typical Attenuation Eccosorb MCS



RFP-DS-MCS 093015

Any information furnished by Laird Technologies, Inc. and its agents is believed to be accurate and reliable. All specifications are subject to change without notice. Responsibility for the use and application of Laird Technologies materials rests with the end user. Laird Technologies makes no warranties as to the fitness, merchantability, suitability or non-infringement of any Laird Technologies materials or products for any specific or general uses. Laird Technologies shall not be liable for incidental or consequential damages of any kind. All Laird Technologies products are sold pursuant to the Laird Technologies' Terms and Conditions of sale in effect from time to time, a copy of which will be furnished upon request. © Copyright 2015 Laird Technologies, Inc. All Rights Reserved. Laird, Laird Technologies, the Laird Technologies Logo, and other marks are trademarks or registered trademarks of Laird Technologies, Inc. or an affiliate company thereof. Other product or service names may be the property of third parties. Nothing herein provides a license under any Laird Technologies or any third party intellectual property rights.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [EMI Gaskets, Sheets, Absorbers & Shielding](#) *category:*

Click to view products by [Laird Performance Materials](#) *manufacturer:*

Other Similar products are found below :

[23-76FSC-SN-24](#) [2-1616323-1](#) [4-1616259-0](#) [3013350A](#) [46J8501020.NN00](#) [3013310A](#) [3013325A](#) [3013308A](#) [3020604](#) [55005106](#) [3021302](#)
[3031313](#) [67SLH050050025PI00](#) [3021310](#) [0137131400](#) [6-34UT-070-BD-16](#) [303076048](#) [46J5N03020.NN00](#) [30206025](#) [260737](#) [30395641](#)
[3030403](#) [3690103020](#) [HNY-LT15CU4241](#) [46X7503020.NN00](#) [46X7501020.NN00](#) [46W5E02520.NN00](#) [46W5E01520.NN00](#) [302095032](#)
[30207032](#) [30210005](#) [46J5N02520.NN00](#) [3021213](#) [3020804](#) [3021004](#) [74273711](#) [74273704](#) [33403](#) [3031210](#) [3031008](#) [3031004](#) [3030903](#)
[30308055](#) [303076016](#) [303045018](#) [303035015](#) [3029564](#) [3025602](#) [3023502](#) [3022303](#)