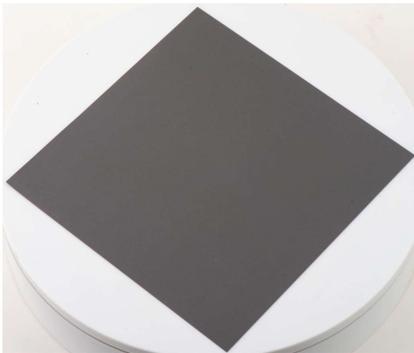


High Loss, Magnetically Loaded, Elastomeric Microwave Absorber



HIGH-LOSS ELASTOMERIC ABSORBER

Eccosorb BSR / MFS is a thin, flexible, high-loss, electrically non-conductive silicone absorber. It is designed for the frequency range from 6 GHz to 18 GHz and above. It has low outgassing properties and high temperature resistance. BSR / MFS is flexible and can be fitted to compound curves. BSR and MFS refer to the same product where BSR-1 is MFS-124 and BSR-2 is MFS-117.

FEATURES AND BENEFITS

- Flexible structure for improved fit
- High thermal stability
- Electrically non-conductive
- High magnetic loss
- Low outgassing
- Good adhesion to metals

MARKETS

- Mobile / Data Infrastructure
- Security and Defense
- Automotive Electronics
- Industrial Electronics
- Space

VALUE

- Simplified design due to mechanical and electrical properties
- Environmentally friendly solution meeting regulatory requirements of RoHS and REACH
- Improved reliability performance of electronics
 - Better signal integrity due to high reduction of EMI
 - Consistent electronics performance due to low outgassing properties
 - Reliable mechanical attachment

TYPICAL PROPERTIES	TYPICAL DATA
Frequency Range (GHz)	6 – 35
Service Temperature °C	170
Flame Rating	UL 94 V-0
Hardness (Shore A)	> 70
Density	4.2
Elongation (%)	50
Tensile Strength (MPa)	5.0
Volume Resistivity (ohm-cm)	2 x 10 ⁹
Thermal Expansion (per °C)	63 x 10 ⁻⁶
Thermal Conductivity (W/mK)	0.865
Water Absorption (% 24 hours)	< 0.1
Dielectric Strength (v/mil)	> 10
Outgassing (%TML) (%CVCM)*	0.47 / 0.28

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

- Eccosorb BSR/MFS is engineered to reduce or eliminate surface currents, cavity resonance, coupling, and generally dampen reflections. It will significantly improve the operation of microwave devices by lowering the Q of cavities.

USA: +1.866.928.8181

Europe: +49.8031.24600

Asia: +86.755.2714.1166

www.laird.com





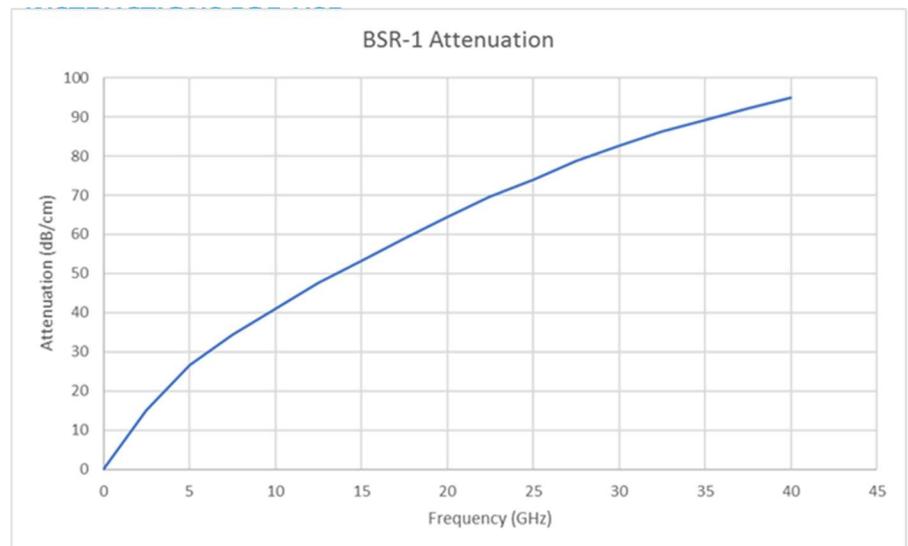
Hybrid Thermal/EMI Absorber

It can also be used terminations, loads, attenuators in microwave circuits, and in waveguides and transmission systems.

- Eccosorb BSR/MFS is recommended for use in high reliability aerospace, military, and space applications, exhibiting excellent thermal cycling, shock and vibration absorption characteristics.
- Some other applications include power amplifiers, oscillators and down/up converters.

AVAILABILITY

- Standard sheets are 305 x 305mm (12"x12").
- Standard thicknesses are 0.25mm (0.010"), 0.32mm (1/8"), 0.50mm (0.020"), 0.64mm (1/4"), 1.0mm (0.040"), 1.27 mm (1/2"), 1.5mm (0.060") and 2.54mm (0.100")
- It can be supplied with or without pressure sensitive adhesive (PSA).
- Available in other thicknesses, sizes, and customer specified shapes upon request.



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RFP-DS-BSR MFS 012618

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