

# Cavity Resonance Absorber 24-113C

Version TDS.24-113C.V.B.0

## Description

Jones 24-113C cavity resonance absorber is a thin, magnetically filled, flexible silicon rubber sheet, which has high loss for the frequency range from 800M and above. The materials are offered as sheet of various thicknesses with or without pressure sensitive adhesive. They are flexible and can be easily die-cut.

It can be applied to metal surfaces to attenuate RF surface currents and dampen microwave cavity resonances due to the absorbers high permittivity and permeability as well as high loss. It can be used to modify antenna patterns, lower the Q of a cavity, act as a transmission line attenuator and modify the radar cross section of targets. Generally, thicker grades are required to attenuate lower frequencies to the same degree as a thinner grade at higher frequency.



## Applications

- Commercial telecommunication
- Security and Defense
- Automotive and industrial electronics

## Benefits

- High magnetic loss
- Wide frequency
- RoHS Compliant
- Electrically isolating

## Instructions for use

- 24-113C is designed to function directly in front of a metallic surface.
- The common method of applying 24-113C to a substrate is supplying with a pressure sensitive adhesive. It will provide an adequate bond in many applications, particularly when one is bonding smaller pieces. For good bond effect, the metal should be scuffed with sandpaper, wiped with alcohol to remove dust and grease. If possible, press the part onto a surface with silicone primer and apply heat with a heat gun for 1-2 minutes for best results.
- 24-113C can be readily cut with a sharp knife and template. It is very flexible material and conforms to contoured surface.

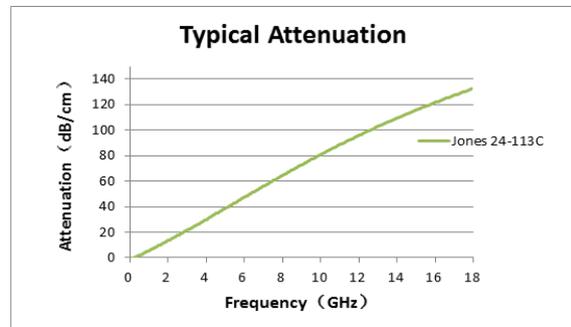
## Disclaimers

- The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the issuing date of this TDS. When using our products, no matter what type of equipment they might be used for, be sure to make a written agreement on the specifications with us in advance. The design and specifications in this TDS are subject to change without prior notice.
- Do not use the products beyond the specifications described in this TDS. This TDS explains the typical performance of the products as individual component. Before use, check and evaluate their operations when installed in your products.
- Install the following systems for a failsafe design to ensure safety if these products are to be used in equipment where a defect in these products may cause the loss of human life or other significant damage, such as damage to vehicles (automobile, train, vessel), traffic lights, medical equipment, aerospace equipment, electric heating appliances, combustion/gas equipment, rotating equipment, and disaster/crime prevention equipment.

## Typical Properties

Properties	24-113C-001	Test Method
Color	Grey	/
Density (g/cm <sup>3</sup> )	4.90	ASTM D792
Tensile Strength (MPa)	> 3.50	ASTM D412
Elongation (%)	> 50	ASTM D412
Hardness (Shore A)	> 80	ASTM D2240
Volume Resistance (ohm-cm)	> 10 <sup>8</sup>	ASTM D257
Dielectric Strength (volts/mil)	> 10	ASTM D149
Thermal Conductivity(W/m-k)	> 1	ASTM D5470
Flammability Rating	V-0	UL94
Operating Temperature(°C)	- 40~ + 120	/

## Typical Attenuation



## Ordering Information

- Standard sheets are 200mm×200mm×1mm
- Absorber supplied with a PSA can be available
- Customized size, thickness and specified configurations can be available

