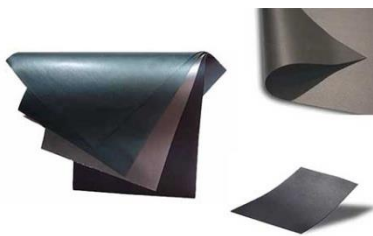


## KV-RA-S

# Silicon Rubber Based Thin, Flexible, Resonating Absorber

### FEATURES:



- ❖ Thin, flexible, weather proof, narrow band resonating absorber sheet at design frequencies from 1-35 GHz.
- ❖ Magnetically loaded Silicon rubber sheets.
- ❖ Temperature withstand capability from -40°C to +200°C.

### Typical Reflectivity:

**General Performance of Resonating Absorber at Frequency Nomenclature KV-RA-S-XX Where XX is Design Frequency in GHz**

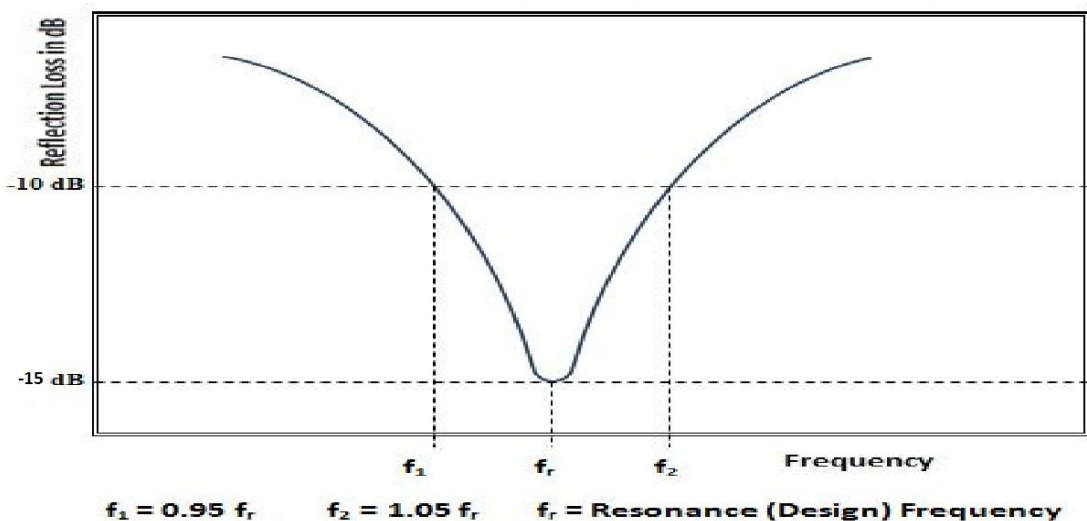


Fig-1

- ❖ Typical Reflectivity Curve of KV-RA-S is shown in the figure-1.
- ❖  $\leq -15\text{dB}$  reflection loss at center frequency with  $-10\text{dB}$  reflection loss at  $\pm 5\%$  bandwidth around the center frequency from 1-35 GHz. (as compared to the flat metal plate of the same size) Tested as Per IEEE Standard 1128-1998: IEEE Recommended practice for RF Absorber Evaluation using NRL Arch Method.

## Other Products:

- ❖ Resonating Absorber Sheets are available at other frequencies ranging from 1.0 GHz to 40.0 GHz and beyond. For other microwave absorbers please refer our website [www.sltmicrowave.com](http://www.sltmicrowave.com).

## AREAS OF APPLICATIONS:

- ❖ Adhered to masts of Ships, walls, bridges etc to reduce false images, reflections and echoes to antennas.
- ❖ Suppressing parabolic antenna side lobes.
- ❖ Suitable for Out-Door Applications.
- ❖ Attaching to vehicles to reduce overall Radar Signature.
- ❖ Suppressing specular reflections inside microwave units e.g. power amplifiers of mobile telephones, low noise blocks of satellite receivers etc.

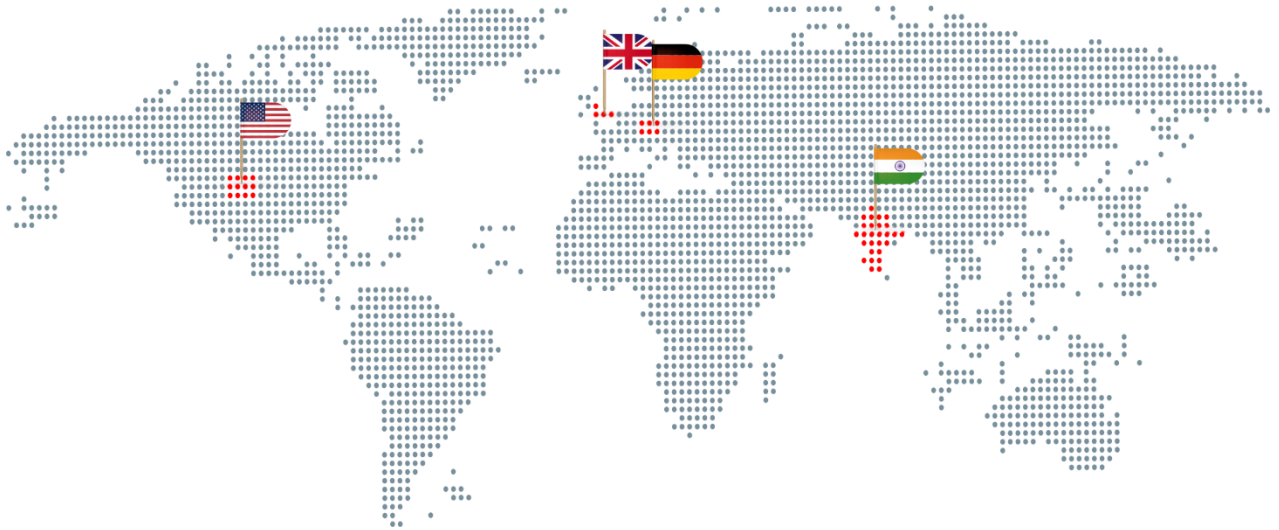
## How to Use:

- ❖ For optimum performance the absorber must be immediately backed with metallic surface.
- ❖ If a metal surface is not available, the sheet must be fixed on a flat metal foil and then cover the structure or ask for a metal foil backed absorber named as KV-RA-S-ML.
- ❖ Standard Size of absorber is 300mm x 300mm. other sizes may be supplied on request.
- ❖ KV-RA-S can be backed with Adhesive. This retains the reflection/ frequency characteristics of the absorber.

## TYPICAL PROPERTIES OF KV-RA-S

Frequency (GHz)	Approx Thickness $\leq$ (mm)
1	7.1
1.5	5.9
2	3.6
2.5	3.6
3	3.1
3.5	2.7
4	2.7
4.5	2.7
5	2.2
5.5	2.2
6	2.2
6.5	2.2
7	1.8
7.5	1.8
8	1.8
8.5	1.8
9	1.8
9.5	1.8
10	1.8
10.5	1.8
11	1.8
12	1.8
13	1.8
14	1.8
15	1.8
16	1.4
17	1.4
18	1.4
24	1.3
35	0.7

# GLOBAL PRESENCE



**LASER CUTTING** RF & Microwave  
**MARKING** Medical Devices  
**WELDING** Hi-Tech Software  
 Diamond Processing  
 Renewable Energy  
 Cleaning  
 Scribing / Dicing  
 Automations

**DEFENCE & AEROSPACE**  
**MICRO MACHINING**

## SLTL'S STRENGTH

<p>Experience</p> <p><b>34+</b> Years</p>	<p>Mfg. Plants</p> <p><b>6</b> Laying Over</p> <p><b>54000</b> Sq. mtr.</p>	<p><b>10%</b></p> <p>Yearly R&amp;D</p>	<p>Exports</p> <p><b>40+</b></p> <p>Countries</p>
<p><b>15000+</b></p> <p>Systems</p>	<p><b>ISO</b></p> <p>9001-2015</p>	<p><b>26+</b></p> <p>Patents</p>	<p><b>29+</b></p> <p>Awards</p>

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