

ABS-SLF series

Laminated flexible microwave foam absorber

ABS-SLF absorbers are a range of broadband microwave absorbers consisting of a multilayer with different graded layers. The stack is designed to obtain a broadband reflectivity level at microwave frequencies of typically better than -17dB of perpendicular incident energy relative to a metal background.

Applications :

- Lining of the inside of small test boxes to reduce reflections.
- Installation around antennas systems and inside radomes to reduce crosstalk.
- Improvement of back- and side lobes of antennas.
- Reduction of radar cross section from masts and other metal structures.

Specifications :

Type	Thickness (cm)	Weight (Kg)	Reflectivity level (-dB)
ABS-SLF-6	6mm	0,25	-17db > 20 GHz
ABS-SLF-10	10mm	0.40	-17dB > 7.5 GHz
ABS-SLF-19	19mm	0.70	-17dB > 3.5 GHz
ABS-SLF-29	29mm	0.80	-17dB > 2.4 GHz
ABS-SLF-57	57mm	1.50	-17dB > 1.2 GHz
ABS-SLF-114	114mm	3.00	-17dB > 0.8 GHz

Properties :

Front side painted white, backside is unpainted.
Standard outside dimensions : 610 x 610mm
Maximum service temperature : +90°C
Typical power handling : 0.15 W/cm²

Availability :

Besides standard outside dimensions also specific or customized sizes and shapes can be supplied. ABS-SLF is not intended for outdoor use as humidity will reduce its RF-performance and lifetime. Depending on the application and requirements specific coatings or fabrics can be applied on the foam material to make it resistant for outdoor applications or harsh environments.

The following types of protection with different colours are available :

ABS-SLF-xx-T : absorber protected with a special coated fabric for use in semi-outdoor applications

ABS-SLF-xx-C : absorber is painted using a PU coating as anti-dust or for esthetic reasons

ABS-SLF-xx-V : absorber is sealed using a specific PVC fabric for use in harsh environment.

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