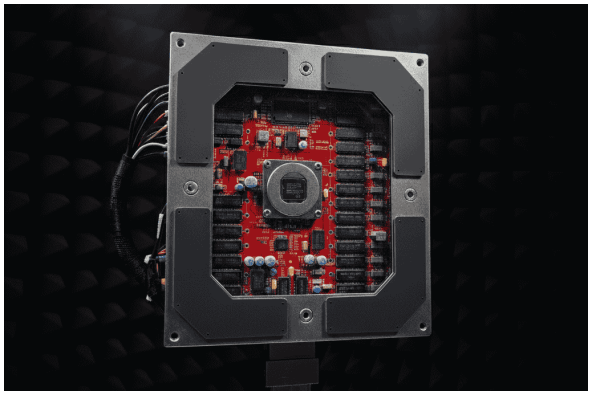


RF-Absorber
SW-1000
SW-2000

GBA

Product Highlights

- Soft and elastic in sheet format, thin, suitable for compact design.
- Made of insulating material, can achieve a good noise absorption
  effect by bonding or pressing it on the metal plate.
- Optional PSA, with peeling strength greater than 60Kpa.
- Customization is available.

Product application

- Communication equipment
- Automotive electronics
- Medical instrument
- Radar
- 5G antenna

Descriptions

Both SW1000 & SW2000-series absorbers, using silicone rubber as the substrate and mixed with magnetic filler, are specially designed for the reflection loss of high incident plane waves, and are suitable for the frequency range of 2-40GHz. The substrate material features high temperature resistance, oil resistance and flame retardant. The magnetic filler has excellent wave absorption performance when the incident angle is greater than 65°. The product reflectivity measurement refers to GJB2038A-2011.

The SW-series is used to “eliminate” the electromagnetic noise in the closed cavity structure, reduce the “Standing Wave” generated by the microwave resonance in the casing and the “Q” value in the cavity. It can also effectively isolate the bottom plate and the antenna, improve antenna gain. The SW series offers a solution for electromagnetic shielding in the 2-40GHz range by combining with other EMI materials.

SPECIFICATIONS TABLE

Material Part numbers	Thickness (mm)	Standard size (mm)	Target Frequency (GHz) & Attenuation (dB)	Operating Temperature (°C)	Resistance Ω	Color	Hardness (Shore A)	Density (g/cm^3)
SW1010	0.25	300	37.60,-15.02	-55~+155	1X10^9	Gray	70	4.3
SW1020	0.5	X	18.40,-13.83					
SW1031	0.8	300	13.77,-17.07					
SW1039	1		9.98,-18.13					
SW1059	1.5		8.02,-26.93					
SW1079	2		5.27,-21.56					
SW2020	0.5		18.00,-10.64		1X10^9			4.6
SW2031	0.8		8.98,-15.24					
SW2040	1		7.60,-19.19					
SW2059	1.5		5.20,41.80					
SW2098	2.5		2.80,-26.77					
SW2126	3.2		2.23,-25.09					

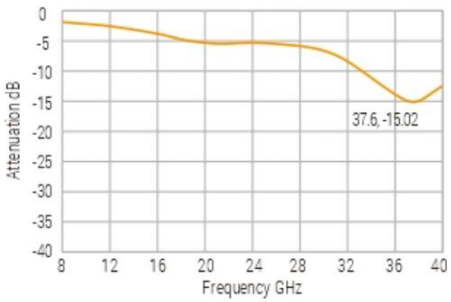
RF-Absorber

SW-1000, SW-2000

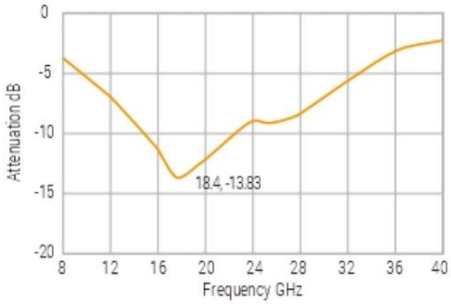
GBA

Performance curves

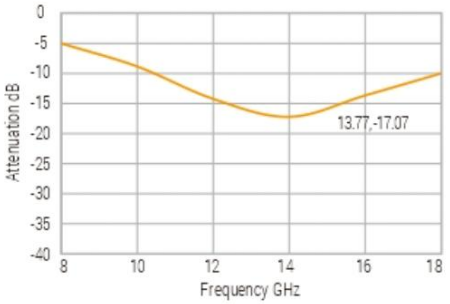
SW1010 Reflection Loss - T=0.25MM



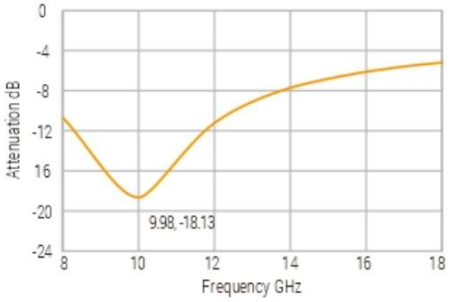
SW1020 Reflection Loss - T=0.5MM



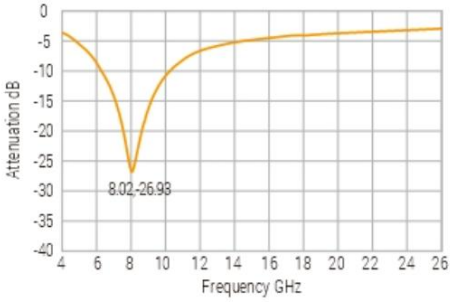
SW1031 Reflection Loss - T=0.8MM



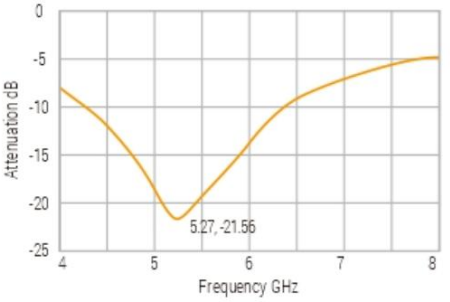
SW1039 Reflection Loss - T=1.0MM



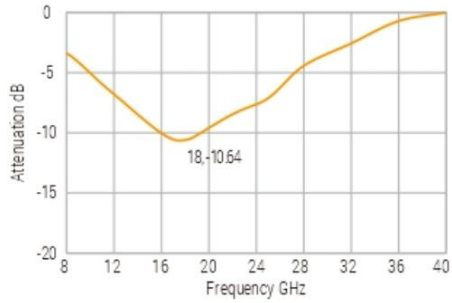
SW1059 Reflection Loss - T=1.5MM



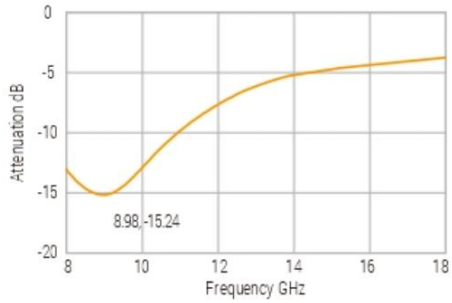
SW1079 Reflection Loss - T=2MM



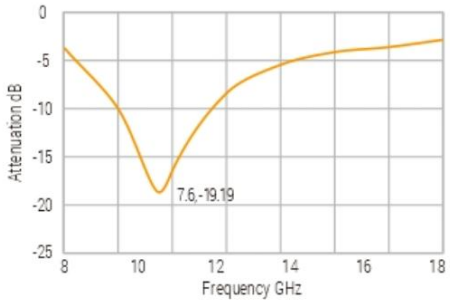
SW2020 Reflection Loss - T=0.5 MM



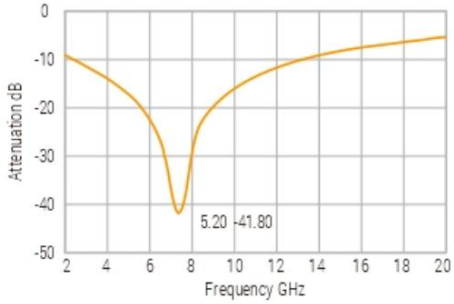
SW2031 Reflection Loss - T=0.8MM



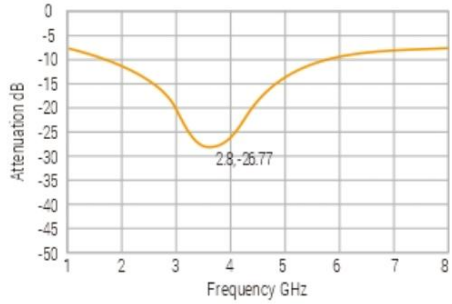
SW2040 Reflection Loss - T=1 MM



SW2059 Reflection Loss - T=1.5MM



SW2098 Reflection Loss - T=2.5MM



SW2126 Reflection Loss - T=3.2MM