

RF-Absorber

SW4000

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

The SWseries 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

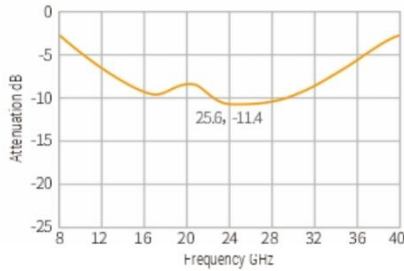
Material Part numbers	Thickness (mm)	Standard Size (mm)	Target Frequency (GHz) & Attenuation (dB)	Operating Temperature (°C)	Resistance (Ω)	Color
SW4020	0.5	300 X 300	25.6,-11.4	-55~+155	1X10 ⁹	grey
SW4024	0.6		40.0,-13.8			
SW4028	0.7		14.6,-24.3			
SW4031	0.8		35.1,-18.8			
SW4039	1		12.1,-17.9			
SW4040	1		25.3,-15.3			
SW4040H	1		24.8,-21.8			
SW4041	1		29.8,-23.2			
SW4043	1.1		23.8,-27.7			
SW4050	1.25		14.5,-19.3			
SW4051	1.3		14.4,-19.3			
SW4058	1.5		7.4,-27.4			
SW4059	1.5		11.1,-29.4			
SW4067	1.7		11.2,-23.8			
SW4079	2		1.5,-14.3			
SW4080	2		2.4,-10.3			

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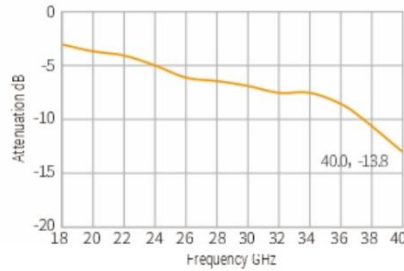
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Performance curves

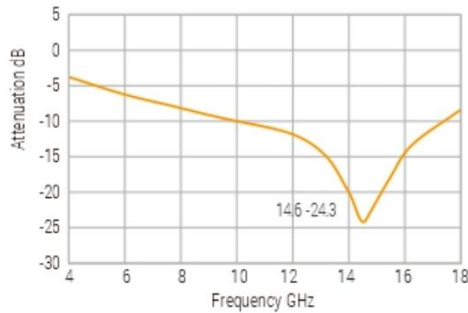
SW4020 Reflection Loss



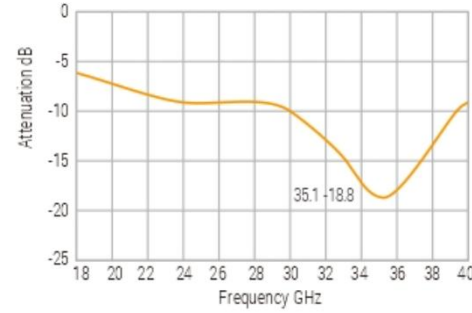
SW4024 Reflection Loss



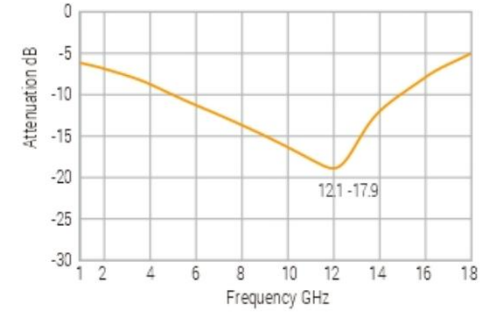
SW4028 Reflection Loss



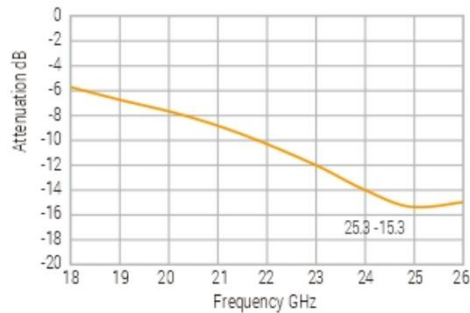
SW4031 Reflection Loss



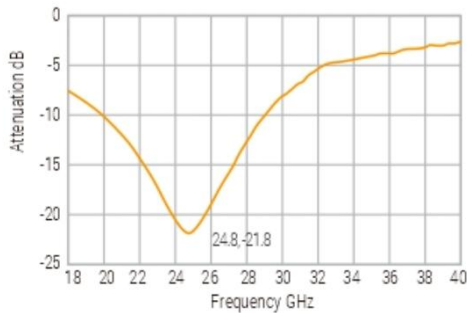
SW4039 Reflection Loss



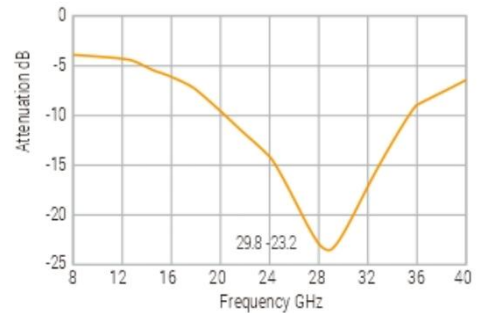
SW4040 Reflection Loss



SW4040H Reflection Loss



SW4041 Reflection Loss

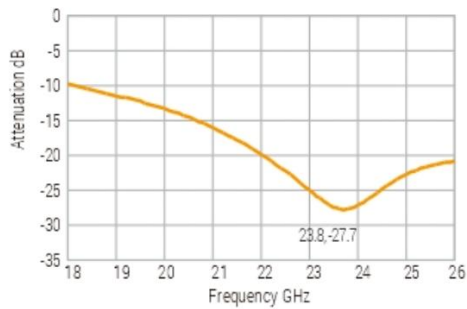


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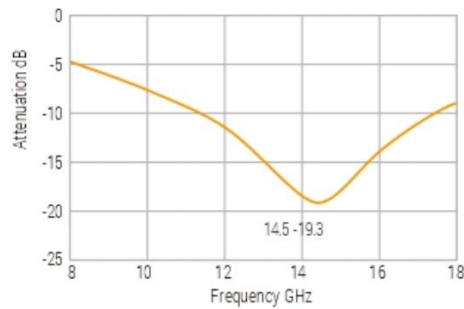
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Performance curves

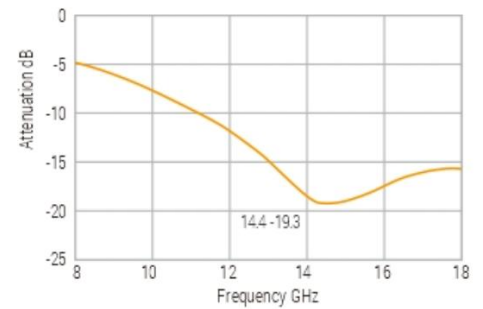
SW4043 Reflection Loss



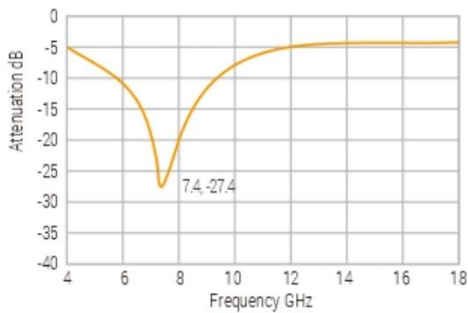
SW4050 Reflection Loss



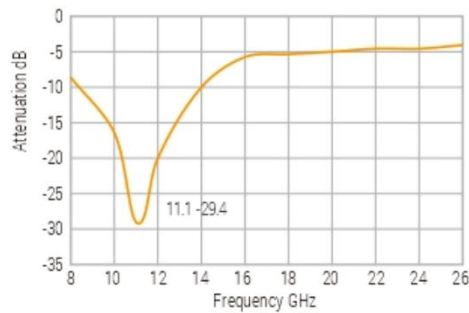
SW4051 Reflection Loss



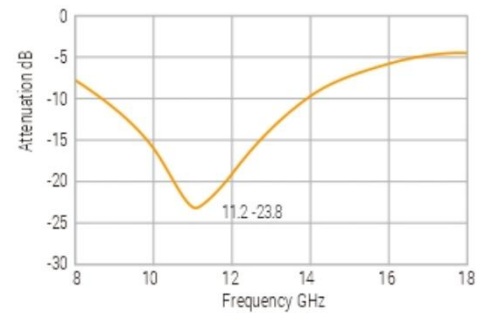
SW4058 Reflection Loss



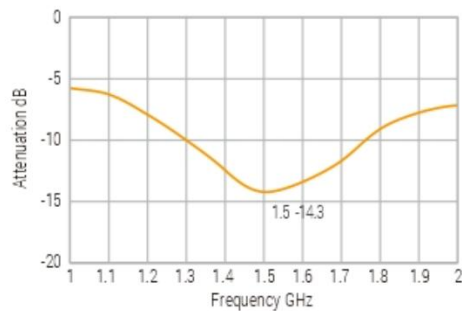
SW4059 Reflection Loss



SW4067 Reflection Loss



SW4079 Reflection Loss



SW4080 Reflection Loss

