

# RF-Absorber

## SW4000



### 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 |
|-----------------------|----------------|--------------------|---|----------------------------|-------------------|-------|
| <b>SW4020</b>         | 0.5            | 300<br>X<br>300    | 25.6,-11.4                                | -55~+155                   | 1X10 <sup>9</sup> | grey  |
| <b>SW4024</b>         | 0.6            |                    | 40.0,-13.8                                |                            |                   |       |
| <b>SW4028</b>         | 0.7            |                    | 14.6,-24.3                                |                            |                   |       |
| <b>SW4031</b>         | 0.8            |                    | 35.1,-18.8                                |                            |                   |       |
| <b>SW4039</b>         | 1              |                    | 12.1,-17.9                                |                            |                   |       |
| <b>SW4040</b>         | 1              |                    | 25.3,-15.3                                |                            |                   |       |
| <b>SW4040H</b>        | 1              |                    | 24.8,-21.8                                |                            |                   |       |
| <b>SW4041</b>         | 1              |                    | 29.8,-23.2                                |                            |                   |       |
| <b>SW4043</b>         | 1.1            |                    | 23.8,-27.7                                |                            |                   |       |
| <b>SW4050</b>         | 1.25           |                    | 14.5,-19.3                                |                            |                   |       |
| <b>SW4051</b>         | 1.3            |                    | 14.4,-19.3                                |                            |                   |       |
| <b>SW4058</b>         | 1.5            |                    | 7.4,-27.4                                 |                            |                   |       |
| <b>SW4059</b>         | 1.5            |                    | 11.1,-29.4                                |                            |                   |       |
| <b>SW4067</b>         | 1.7            |                    | 11.2,-23.8                                |                            |                   |       |
| <b>SW4079</b>         | 2              |                    | 1.5,-14.3                                 |                            |                   |       |
| <b>SW4080</b>         | 2              |                    | 2.4,-10.3                                 |                            |                   |       |

# RF-Absorber SW4000

GBA

## Performance curves



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