Millimeter-Wave **Absorbent Sheet**



TODA

OVERVIEW

These sheets are millimeter-wave absorbers produced by mixing soft magnetic powders and silicone resin. Their heat resistance and flexibility are so high that they can be used for noise suppression such as 5G, next-generation mobile communications, and in-vehicle radar communications. It is possible to attach them at small gaps and complicated shapes since they have excellent processability due to their sheet forms.

FEATURES

High millimeter-wave absorption property

They have more than 99% absorption ratio by the high packing of magnetic powders.

Excellent heat resistance

They can be used in various environment by use of low outgassing silicone resin.

CHARACTERISTICS

[Typical Properties] Target frequency 24GHz band 28GHz band 77GHz band Material Iron powder, Silicone resin ← 4 Absorption property More than -20dB ~ ~ □300mm Maximum size ~ ~ Standard thickness 1.2mm 1.1mm 1.1mm Prevent electromagnetic Prevention of Prevent electromagnetic Main application communication failures interference of interference of in-vehicle radar of 5G-related devices in-vehicle radar 0 -10 Return Loss (dB) -20 Absorption ratio 99% -30 Higher -40 For 28GHz band absorption For 24GHz band For 77GHz band -50 18 20 24 26 28 77 79 81 22 Frequency (GHz)

Roll type

(Absorption properties of millimeter-wave absorbent sheets)

%Please contact us for sample of other properties

APPLICATIONS

- In-vehicle millimeter-wave radars
- Antenna devices at next-generation mobile communication base stations such as 5G

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