
Technical Data

DONGSHIN SAT -----Single layer, flexible, carbon loaded, foam microwave absorber

Characteristics

- ◆ **basic composition:**
carbon loaded, polyurethane,
single layer sheet absorber
- ◆ **feature:**
variable thickness, lightweight,
flexible, easily cut, high loss and
low cost compared to rubber sheet
- ◆ **retardancy:**
NRL report 8093 I, II, and III
- ◆ **working temperature:**
-50°C ~ + 80°C or -85°F ~ 176°F

Availability:

- ◆ **thickness**
Standard thicknesses are 3mm 6mm
and 9mm. Other thicknesses are
available by demand
- ◆ **base size**
Standard base size is 500mm X
500 mm for all SAT type.
610mmX610mm or other sizes are
available by demand
- ◆ **Color**
Light blue for the surface and black
for the back
- ◆ **Attenuation**
Different attenuation are achieved
by varying levels of carbon loading



- ◆ **Naming**
SAT-xxmm-yydB
xx: material thickness in mm
yy: material insertion loss
dB/cm at 10GHz
Example: SAT-3mm-45dB, it
is SAT 3mm thick and 45dB/
cm attenuation at 10GHz.
- ◆ **PSA**
SAT can be supplied with a
pressure sensitive adhesive
(PSA) for easy use, peel and
stick. PSA is attached to the
end of the model name if
applicable
- ◆ **Weather Proof**
alternative weather proof type
is available for outdoor use.
WP is attached to the end of
the model name if applicable

Performance table

Grade	Attenuation(dB/cm)	
	3GHz	10GHz
SAT-xxmm-45dB	24	45
SAT-xxmm-40dB	20	40
SAT-xxmm-34dB	15	34
SAT-xxmm-24dB	11	24
SAT-xxmm-15dB	7.0	15
SAT-xxmm-7dB	4.0	7.0
SAT-xxmm-4dB	2.5	4.0
SAT-xxmm-2dB	1.5	2.0

Applications

- ◆ SAT can be used to lower the Q of cavities in RF amplifiers, oscillators, microwave devices and etc.
- ◆ SAT can also be used to attenuate surface currents on radiating objects and absorb stray RF energy
- ◆ SAT is used to isolate components and plug areas of RF leakage as well.

Method of installation

- ◆ For SAT with PSA, it is easily to be applied by peel and stick.
- ◆ For normal SAT type, neoprene contact adhesive is used to the substrate. To stick more efficiently, the adhesive is brushed on the substrate and wait till it dry to tack-free. Then to apply the adhesive to the back of SAT and wait for a short while when it is still sticky but not wet, and then press SAT onto the substrate.

This information is offered just for the reference of the customers who must make the final judgement of suitability for any application
