

High performance broadband radio absorbers for mmWave

EC-SORB® CV - 3F is a premium-quality broadband absorber which intended high performance in the frequency band of several tens of GHz or more.

Moreover, by innovate a recently developed technology, absorption performance in the millimeter wave band has been further improved.

Intended

By wrapping the absorber interior of anechoic chamber and radio wave screen and around equipment, It is suitable for reflection suppression from these equipment.

Configuration, Dimension

CV - 3F is made from foamed urethane impregnated with conductive paint, it is light and has high flexibility. The surface shape is similar to CV-3. Due to the unique shape and arrangement of the mountain, and fineness of the pitch, we are getting particularly high performance with millimeter wave band. Furthermore, the impregnation amount of conductive paint is also finely optimized.

Sheet size is 61cm x 61cm (24in x 24in) x 7.6 cm (3in) thickness. Cutting to the required shape can be easily done with a cutter knife and so on. It can be attached to a curved surface using chloroprene adhesive.

Flame retardancy

CV - 3F meets the performance to pass the flame retardancy test according to NRL requirement.

Reflection characteristic

As shown in the following figure, the performance is excellent in a very wide area Especially in the high frequency band, it shows excellent performance.



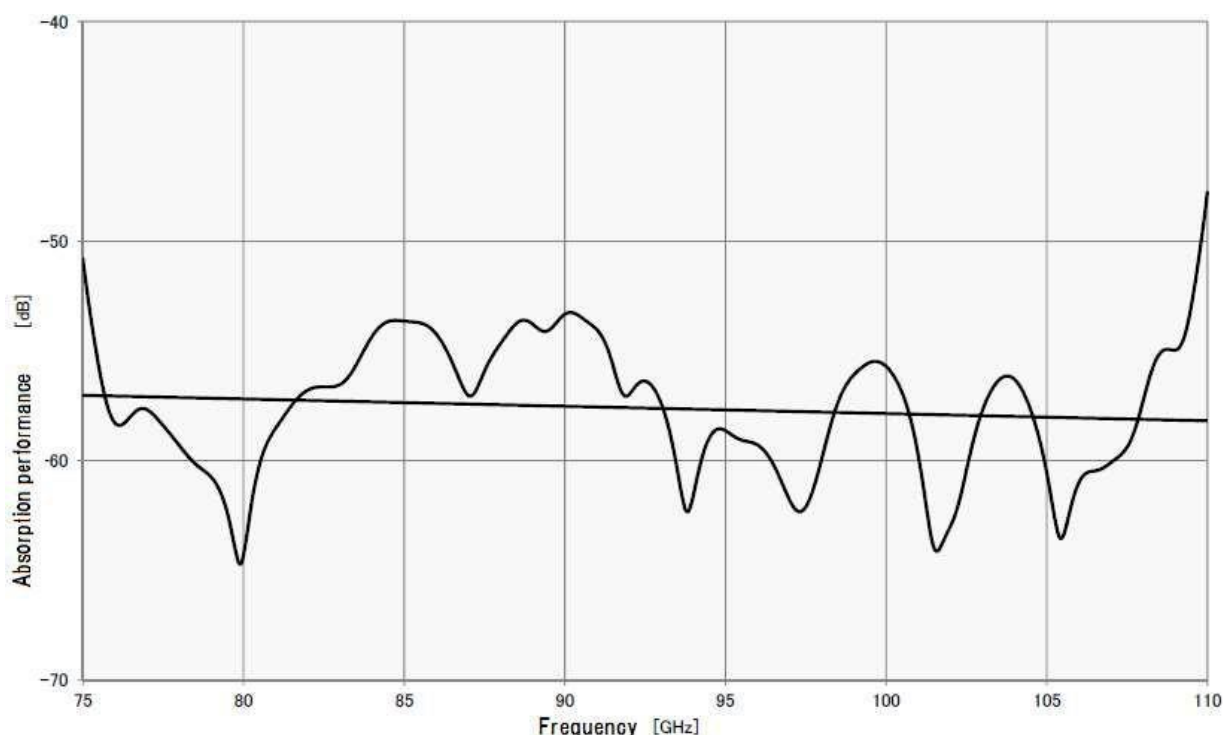
EC-SORB® CV-3F

Absorption performance of EC-SORB® CV-3F at normal incidence

	Height		Weight	S	C	X	Ku	K	Ka	V	W
	cm	inch	kg	3GHz	5GHz	10GHz	15GHz	24GHz	40GHz	75GHz	100GHz
CV-3F	7.6	3	0.8	25	35	40	45	50	50	50	50

CV-3F Reflection coefficients at V and W band normal incidence

With the introduction of the latest technology,
The absorption performance improves in the V and W bands as the frequency rises.



※ The evaluation of absorption performance of the wave absorber depends on NRL arch method at our company. Measurement is when the back side is metal.

* Characteristic table and Performance values of graphs are representative values, not guaranteed values. In addition, specifications are subject to change without notice.

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