



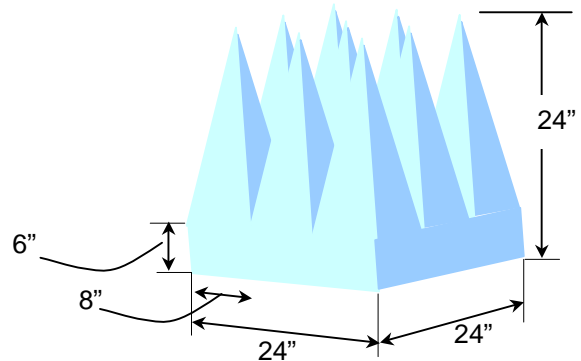
BROADBAND EMC ABSORBER

EMC – 24CL

Meets or exceed MIL-STD-462d Dated 11 Jan 1993, which requires absorber in the test chamber

EMC-24CL is a broadband, combustion-limiting microwave absorber which has been optimised for EMC applications. The EMC series is an evolution of traditional pyramidal polyurethane absorbers which features carefully balanced dielectric properties with special geometry suited to low-frequency operation

A specially formulated combination of carbon loading in a neoprene latex binder is tuned to improve reflectivity performance below 200 MHz. This tuning is verified on each piece of absorber in a large coaxial reflectometer which measures reflectivity vs frequency from 20 to 100 MHz to ensure consistency of performance. Rantec absorbers meet or exceed all absorber fire retardant Specifications including NRL 8093, Tests 1, 2 and 3, TI Drawing No. 2693066 and MIT MS-8-21. Rantec absorbers have an ASTM E84-84 flame-spread index of 35 and a smoke developed index of 450



Properties

Color (Colour)	Light Blue
Maximum Service Temperature	90 ⁰ C
Power Handling Capability	750 W/m ² , 550 V/m
Fire Retardancy	NRL Tests 1, 2, 3
Weight	10.1 lbs / 4.6 kgs

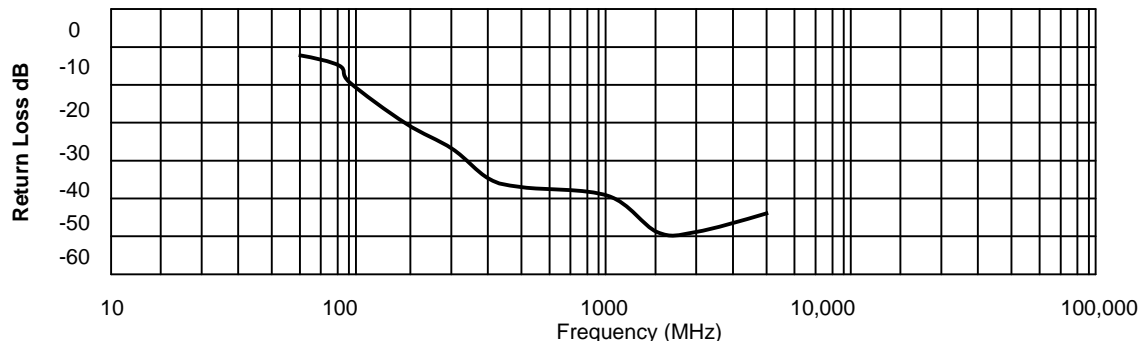
Mechanical Specification

Absorber Size	Absorber Height			Pyramid Base Size	Pyramids per Absorber
	Overall	Base	Pyramid		
24 in x 24 in 61 cm x 61 cm	24 in 61 cm	6 in 45.7 cm	18 in 45.7 cm	8 x 8 in 20.3 x 20.3 cm	9

Maximum Reflection at Normal Incidence

40 GHz	18 GHz	10 GHz	6 GHz	3 GHz	1 GHz	500 MHz	250 MHz	100 MHz	80 MHz	60 MHz
-45 dB	-50 dB	-50 dB	-50 dB	-50 dB	-40 dB	-35 dB	-25 dB	-13	-6 dB	-3 dB

NOTES: All absorber units are factory tested to verify rated reflection characteristics. Rantec will custom fabricate microwave absorbers to any special size, shape, or modified impregnation formulation.



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