PRELIMINARY

Eccosorb™ JCS-Next

Next Generation High Frequency Elastomeric Absorber



LAIRD™ ECCOSORB™ JCS-NEXT

Eccosorb™ JCS-Next is a dielectrically loaded silicone absorber, targeting high frequency noise above 30 GHz. The proprietary filler system is more than 2 times as effective as traditional dielectric or carbon filler systems. Eccosorb™ JCS-Next is waterproof, works well in both high and low temperatures and meets the requirements for UL 94V-0 rating. The material does not flake or shed and can be die cut to complex shapes.

FEATURES AND BENEFITS

- Very high dielectric loss
- Excellent EMI suppression for high frequency applications
- Low density
- Flexible
- Dust free
- UL 94V-0 capable
- REACH and ROHS compliant

MARKETS

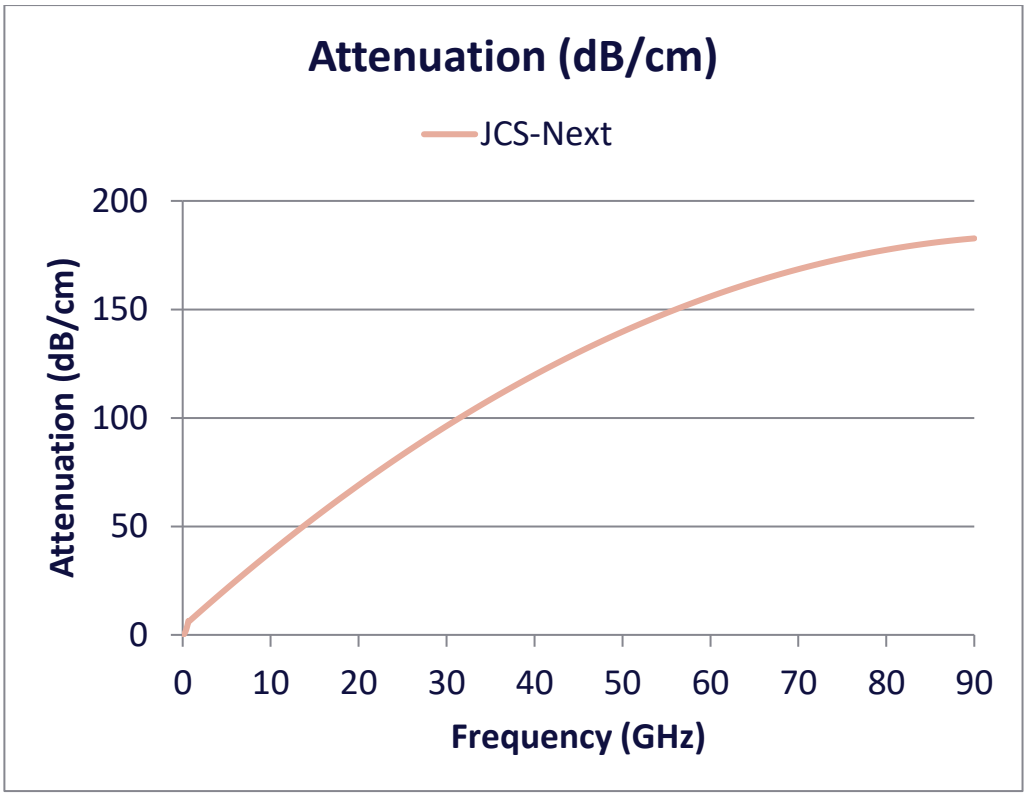
- Telecom/Datacom: 5G mmWave
- Automotive Radar 60 GHz; 76-81 GHz
- Wireless connectivity 60 GHz communication
- Military Applications
- Industrial

PRODUCT PROPERTIES	TYPICAL VALUES	TEST METHOD
Color	Black	Visual
Frequency Range	30 – 90+ GHz	
Service Temperature	-70 to 177°C	
Available Thickness Range	0.25 to 3mm	
Thickness Tolerance	+/- 10%	
Hardness 30 seconds	70 +/- 10	Shore A
UL Flammability	UL94 V-0 (pending)	UL

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AVAILABILITY

- Standard sheet size is 305 mm x 305 mm (12” X 12”)
- Thickness availability range is 0.25 mm – 3.0 mm (0.010” – 0.120”); PSA not included in thickness
- Available with and without Pressure Sensitive Adhesive, PSA (Laird™ SS6M; 0.0045” thick)
- Common standards for thickness are: 0.25, 0.5, 0.75, 1.0, 1.5, 2.0, 2.5, 3.0 mm
- No charge samples are available in 101.6 mm x 101.6 mm (4” X 4”) size

APPLICATIONS

- Eccosorb™ JCS-Next is used to lower cavity Q’s in RF amplifiers, oscillators, cabinets containing microwave devices, computer housings, LNB’s, and isolation of antennas by insertion loss
- Eccosorb™ JCS-Next is also used to reduce surface currents on radiating elements and outer ground-plane type surfaces.

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