

ECOFOAM™ CONDUCTIVE FOAM

Laird Performance Materials' Ecofoam™ CF500H offers an innovative approach to traditional shielding and grounding by providing X, Y and Z-axis conductivity to meet the increasing microprocessor speeds of today's computer, telecommunications and other electronic equipment.



Ecofoam™ is designed for low-cycling applications such as input/output (I/O) shielding and other non-shear standard connectors, and can be customized to your application by die-cutting, hole-punching, notching, and so on. The product is offered with a conductive PSA tape on one side.

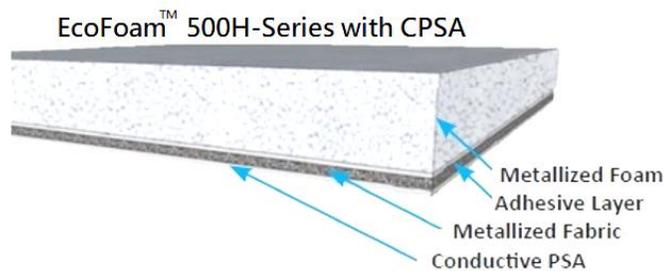
FEATURES

- Excellent humidity resistance
- Low compression forces
- RoHS compliant
- Halogen-free per IEC-61249-2-21 standard
- Thickness available 0.7mm, 1.0mm, 1.5mm, 2.0mm, 2.5mm, 3.0mm
- Typical recommend to compress 25% to 40% of the original height

APPLICATIONS

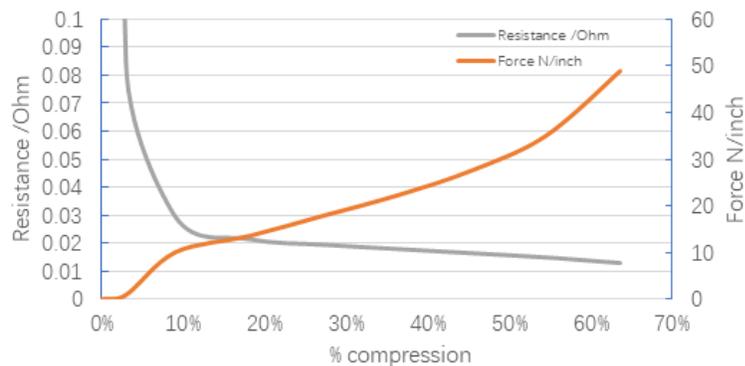
- Tablets
- Automotive
- Displays
- Medical equipment
- Servers
- Telecommunications cabinets

COMPOSITION

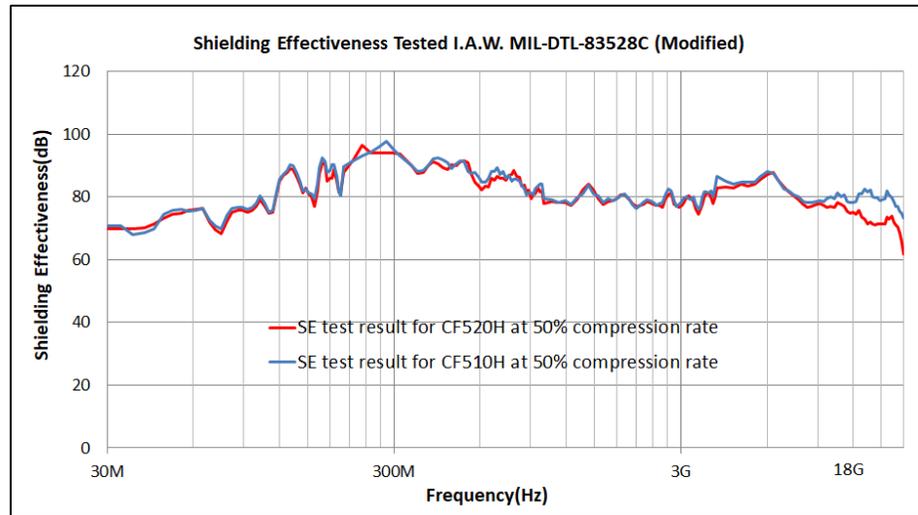


FORCE/DISPLACEMENT/RESISTANCE (FDR)

Force Resistance and Displacement of CF515H



SHIELDING EFFECTIVENESS (DB)



CHARACTERISTICS

ITEM	UNIT	VALUE	TEST METHOD
Thickness Tolerance	mm	±0.2 (0.7, 1.0) ±0.3 (1.5-3.0)	
Z-axis Resistance	Ω	<0.2	Laird internal method ; 25mm x 25mm sample @ 40% compression ratio
Shielding Effectiveness			
at 300 MHz		95 average	MIL STD 83528C
at 3 GHz	dB	76 average	
Compression Set@85°C	%	< 20	ASTM D3574 (30% compression)
Operation Temperature	°C	-40 - 85	
Hazardous Substance		Compliant with RoHS (Directive 2011/65/EU) Halogen-free (based on IEC-61249-2-21)	
Shelf Life		12 months at 23°C/60% R.H.	

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www.laird.com



ORDERING INFORMATION

PART NUMBER EXAMPLE:

C F 5 1 5 H A 0 1 0 5 0 2 0 0

1st to 7th:

PRODUCT NAME AND DETAILS

3rd : Product series
4th to 5th : thickness code
Ex. 15=1.5mm (if the thickness <10mm)
Ex. A0=10,A1=11mm, A2=12mm, etc.

6th to 7th digits:

ENGINEERING CODE

6th: Treatment or composition
Assigned by Laird Eng. Team
7th: Details code
Assigned by Laird Eng. Team

8th to 11th digits:

PRODUCT WIDTH

Ex. 0105=10.5mm

12th to 15th digits:

PRODUCT LENGTH

Ex. 0200=20.0mm
Ex. 020M=2.0meter (if the
part length is over 999.9mm)

EMI--FOF-CF500H_0520

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