CF500 Series

EcoFoam™ Conductive Foam

ECOFOAM™ CONDUCTIVE FOAM

Laird's EcoFoam™ CF500 offers an innovative approach to traditional shielding and grounding by providing X, Y and Z-axis conductivity, enhancing the shielding effectiveness required to meet the increasing microprocessor speeds of today's computer, telecommunications and other electronic equipment. The product is offered with a conductive PSA tape on one side. EcoFoam™ can be customized to your application by die-cutting, hole-punching, notching, and so on and is especially useful for odd-shaped applications which are difficult to shield with typical profile gaskets. EcoFoam™ is designed for low-cycling applications such as input/output (I/O) shielding and other non-shear standard connectors.

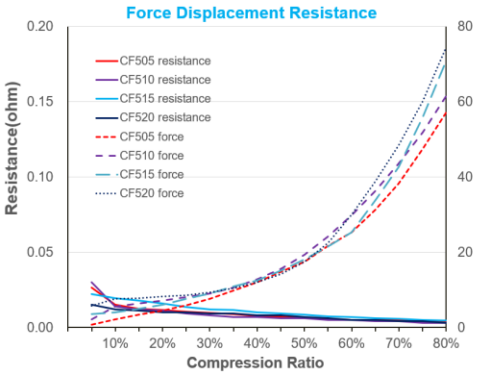
FEATURES

- Widely thicknesses available
- Excellent z-axis conductivity to provide good EMI shielding and grounding
- Low compression forces allow for use of lighter materials
- RoHS compliant and halogen free per IEC-61249-2-21 standard
- The recommended operating compression for EcoFoam™ EMI gaskets will vary depending on the size of the gasket. Typically recommend to compress 25% to 50% of the original height

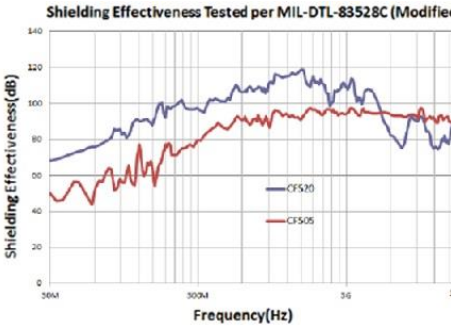
APPLICATIONS

- Servers and Cabinets Application
- Telecommunication Equipment
- Television/Displays
- Desktop / Laptop Computers
- Tablets/ Smartphones
- Medical Equipment
- Automotive Application

FORCE DISPLACEMENT RESISTANCE



SHIELDING EFFECTIVENESS



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CHARACTERISTIC

ITEM	UNIT	VALUE	TEST METHOD
Shielding Effectiveness^			MIL-DTL-83528C (modified)
@300MHz	dB	98 average	
@3GHz	dB	108 average	
Z-axis Resistance*	Ω	<0.2	Laird Internal
Operation Temperature	℃	-40 to 85	
Hazardous Substance	Compliant with RoHS(Directive 2011/65/EU)		
	Compliant with SONY ss-00259		
	Halogen-free (based on IEC-61249-2-21)		
	Antimony-free		
Shelf Life	12 months at 23℃/60% R.H.		

^CF520 *25mm x 25mm, 50% compression ratio

ORDERING INFORMATION

PART NUMBER EXAMPLE

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	F	5	1	5	H	A	0	1	0	5	0	2	0	0

1st to 5th:
PRODUCT NAME AND DETAILS
3rd : Product series
4th to 5th : thickness code
e.g. 15=1.5mm (if the thickness <10mm)
e.g. A0=10,A1=11mm, A2=12mm, etc.

6th to 7th :
DETAILS CODE
Assigned by Laird Eng. Team
6th: Reserve B, F, G, H, J, K, L for customized part

8th to 11th digits:
PRODUCT WIDTH
e.g. 0105-10.5mm

12th to 15th digits:
PRODUCT LENGTH
e.g. 0200=20.0mm
e.g. 020M=2.0meter (if the part length is over 999.9mm)

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