Laird
Smart Technology. Delivered.™

CF-500 Series

EcoFoam™ Conductive Foam

ECOFOAM™ CONDUCTIVE FOAM

Laird's Ecofoam™ 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

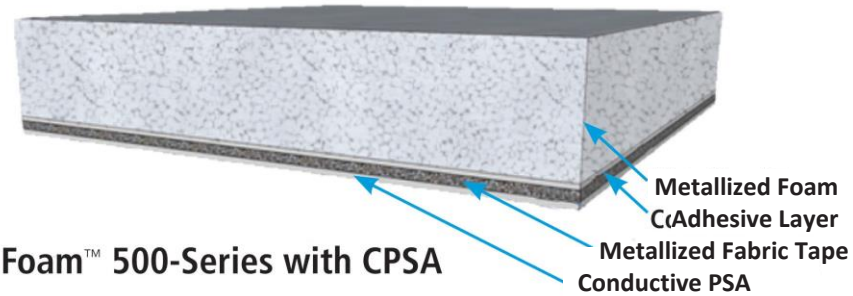
RoHS

- RoHS compliant
- Halogen-free per IEC-61249-2-21 standard
- Excellent z-axis conductivity to provide effective EMI shielding and grounding
- Low compression forces allow for use of lighter materials
- Conductive PSA on one side

MARKETS

- Servers
- Cabinet Applications
- Network and Telecommunication Equipment
- LCD and Plasma TV
- Medical Equipment
- Desktop Computers
- Printers
- Laptop Computers
- Tablets and Smartphones

ECOFOAM™ 500-SERIES (WITH CPSA TAPE)	
Thickness	Designation
0.3 mm	CF503
0.5 mm	CF505
0.7 mm	CF507
1.0 mm	CF510
1.5 mm	CF515
2.0 mm	CF520
2.5 mm	CF525
3.0 mm	CF530
3.5 mm	CF535
4.0 mm	CF540



EcoFoam™ 500-Series with CPSA

USA: +1.866.928.8181
Europe: +49.0.8031.2460.0
Asia: +86.755.2714.1166

www.lairdtech.com

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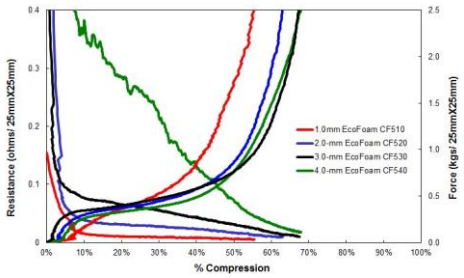
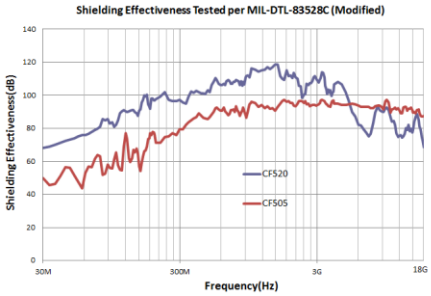
FORCE/DISPLACEMENT/RESISTANCE (FDR)



SHIELDING EFFECTIVENESS



ITEM	UNIT	VALUE	TEST METHOD
Thickness	mm (±0.2 mm) mm (±0.5 mm)	0.3, 0.5, 0.7 1.0, 1.5, 2.0, 2.5, 3.0, 4.0	-
Z-Axis Resistance*	Ω	<0.2	Laird Internal
Shielding Effectiveness			MIL-DTL-83528C (modified)
300 MHz	dB	87 average	
3 GHz	dB	108 average	
18 GHz	dB	78 average	
Compression Set	%	< 30	ASTM D3574
Foam Density	kg/m³	30 ±5	-
Operation Temperature	°C	-40 to 70	
Hazardous Substance		Compliant with RoHS (Directive 2011/65/EU)	
		Halogen-free per IEC-61249-2-21 Standard	
Shelf Life		12 months at 23°C/ 60% R.H.	

*25mm x 25mm Test Sample, 1000 gf loading

Values presented have been determined by standard test methods and are typical values not to be used for specification purposes.

ORDERING INFORMATION

PART NUMBER EXAMPLE

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

PRODUCT NAME (CF500/CF600/ CF700 series) EX: CF520

SITE ENG CODE: this is defined by site eng team(refer to "SITE ENG CODE" sheet) AA, AB, AC…A9 etc

PRODUCT WIDTH(WIDEST) EX: 0105=10.5mm

PRODUCT LENGTH (LONGEST) EX: 0200=20.0mm EX: 020M=2.0m (if the part length is over 999.9mm, please define digit #15 as m[meter])