

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 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 |

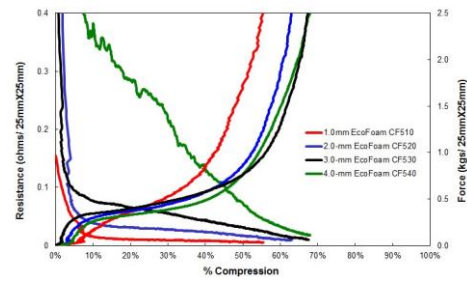


EcoFoam™ 500-Series with CPSA

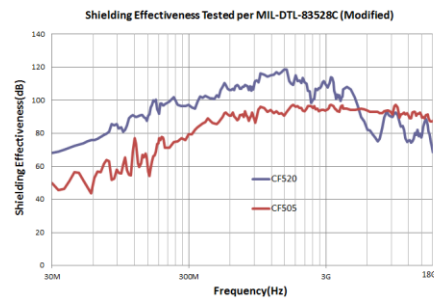
Metallized Foam
CAdhesive Layer
Metallized Fabric Tape
Conductive PSA

CF-500 Series EcoFoam™ Conductive Foam

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/m ³ | 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.