CF100/CF100B Series
EcoFoam™ Conductive Foam

ECOFOAM™ CONDUCTIVE FOAM

Laird's EcoFoam™ CF100 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, telecommunication and other electronic equipment. 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.
CF100B is equivalent to CF100 with one-side black color.

FEATURES

- Available in thicknesses from 1.0 to 3.0 mm (+0.2/-0 mm)
- Excellent z-axis conductivity to provide good EMI shielding and grounding
- Low compression forces allow for use of lighter materials
- UL 94V0 flammability rating
- RoHS compliant and halogen free per IEC-61249-2-21 standard
- Available with or without PSA
- 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

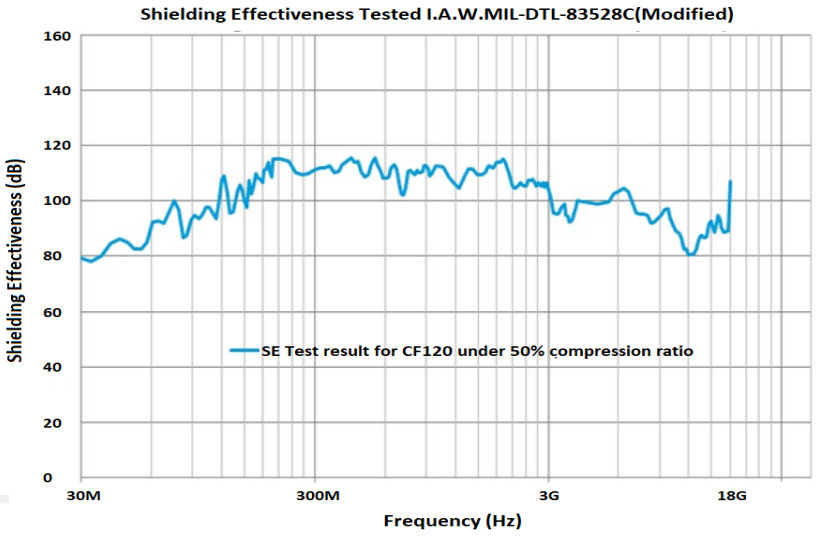
APPLICATIONS

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

DESIGNATION of CF100 SERIES

THICKNESS	DESIGNATION
1.0mm	CF110/CF110B
1.5mm	CF115/CF115B
2.0mm	CF120/CF120B
2.5mm	CF125/CF125B
3.0mm	CF130/CF130B

SHIELDING EFFECTIVENESS



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CHARACTERISTIC

ITEM	UNIT	VALUE	TEST METHOD
Thickness (foam w/o PSA)	mm	1.0, 1.5,2.0, 2.5, 3.0	
Shielding Effectiveness			MIL-DTL-83528C (modified)
@3GHz	dB	80 average	
@18GHz	dB	70 average	
Z-axis Resistance*	Ω	<0.2	Laird Internal
Operation Temperature	℃	-40 to 70	
Flame Retardant		UL 94V0 (UL file No. E170327)	
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.	

*Under 50% compression

ORDERING INFORMATION

PART NUMBER EXAMPLE

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

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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EMI-ENSL-DS-CF100(B) 0122