

EcoFoam™ Black Conductive Foam



ECOFOAM™ CONDUCTIVE FOAM

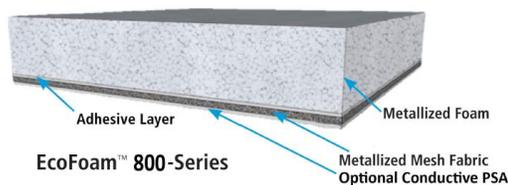
Laird's EcoFoam™ CF800 is a black conductive foam which offers an innovative approach to traditional shielding and grounding by providing X, Y and Z-axis conductivity, enhancing the shielding effectiveness required to meet the increasing microprocessor speeds of today's computer, telecommunications and other electronic equipment. The product is offered with a conductive PSA tape on one side. EcoFoam™ CF800 series 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™ CF800 series is designed for low-cycling applications such as input/output (I/O) shielding and other non-shear standard connectors.

FEATURES

- 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
- The recommended operating compression for EcoFoam EMI gaskets will vary depending on the size of the gasket. Typically recommend compression 25% to 50% of the original height

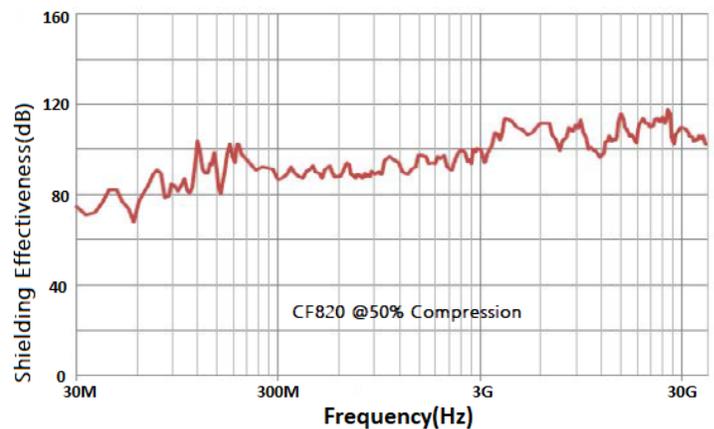
APPLICATIONS

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



SHIELDING EFFECTIVENESS

Shielding Effectiveness Tested per MIL-DTL-83528C(Modified)



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CHARACTERISTIC

ITEM	UNIT	VALUE	TEST METHOD
Thickness & Tolerance	mm	1.0 (+0.3/-0.1)	
		1.5 (+0.3/-0.1)	
		2.0 (+0.3/-0.2)	
Shielding Effectiveness*1			MIL-DTL-83528C (modified)
@300MHz	dB	87	
@3GHz	dB	93	
Z-axis Resistance*2	Ω	<0.2	Laird Internal
Operation Temperature	°C	-40 - 70	
Flame Retardant		UL 94V0 UL file No. E170327 CF7(a)S	
Color	Dark		
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°C/60% R.H.		

*1 Data of CF820

*2 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	8	1	5	H	A	0	1	0	5	0	2	0	0
1st to 5th:					6th to 7th :		8th to 11th digits:			12th to 15th digits:				
PRODUCT NAME AND DETAILS					DETAILS CODE		PRODUCT WIDTH			PRODUCT LENGTH				
3rd : Product series					Assigned by Laird Eng. Team		e.g. 0105-10.5mm			e.g. 0200=20.0mm				
4th to 5th : thickness code					6th: Reserve B, F, G, H, J, K, L					e.g. 020M=2.0meter (if the part length is over 999.9mm)				
e.g. 15=1.5mm (if the thickness <10mm)					for customized part									

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EMI-ENSL-DS-CF800 0122