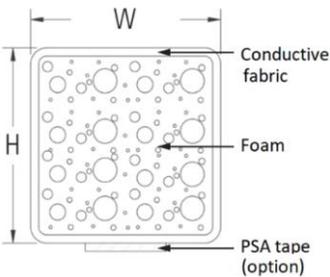
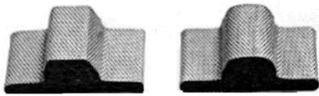


ECOTEMP™ FOF GASKETS 615/616/617/618/619

Laird EcoTemp™ Fabric-over-Foam (FOF) gaskets are composed of metallized fabric wrapped around a soft silicone foam core which are good in EMI shielding and grounding under wide temperature range from -40°C to 125°C. They can be created with various cross-section profiles such as square, rectangular, hourglass, or trapezoid, and further customized to an application by die-cutting, hole punching, notching, etc.

EcoTemp™ FOF gaskets supply with either a non-conductive or electrically conductive pressure sensitive adhesive (PSA) and can be equipped with an extended release liner (ERL) on the adhesive.

EcoTemp™ FOF gaskets are halogen free and flame retardant.



FEATURES



- Excellent z-axis conductivity to provide good EMI shielding and grounding
- Wide range of compression forces for selection
- Low compression set at high temperature
- RoHS compliant and halogen free per IEC-61249-2-21 standard
- Various cross-section profiles
- UL94 V0 flame retardant grade
- 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

SELECTION TABLE

Series	Color	Profile	Characteristics
615	Gary or black	Hourglass, trapezoid, etc., according to customer request	Good for height/width >1 or height >5mm
616	Gray	Standard FOF profiles	High compression force
617	Gray		Low compression force
618	Black		Medium compression force
619	Black		Low compression force

CHARACTERISTICS

ITEM	TYPICAL VALUE				TEST METHOD
	616	617	618	619	
Color	Gray	Gray	Black	Black	-
Compression force(N)					
5mm x 5mm x 25mm	17	2.9	6.5	3	Laird FDR test method, 50% compression
3mm x 3mm x 25mm	-	1.9	4.2	2	
Resistance, z-axis(Ω)					
5mm x 5mm x 25mm	0.01	0.04	0.02	0.04	Laird FDR test method, 50% compression
3mm x 3mm x 25mm	-	0.09	0.05	0.09	
Surface resistivity(Ω/sq)	<0.07	<0.07	<0.07	<0.07	ASTM F390
Shielding effectiveness(dB)					
100MHz@50% comp.	104	85	99	83	MIL- DTL- 83528E
1GHz@50% comp.	90	82	86	80	
Compression set(%)					ASTM D3574, 22Hrs@125°C, 50% compression
5mm x 5mm x 25mm	-	6	4	7	
3mm x 3mm x 25mm	7	-	-	-	
Flame retardant			V0		UL94 (E170327 V0 048)
Operation temperature(°C)			125		
Hazardous substance	Compliant with RoHS (Directive 2011/65/EU)				
	Halogen-free (based on IEC-61249-2-21)				
Shelf life	12 months at 23°C/60% R.H.				

Note: 615 series are custom profile gaskets with no typical value available.

DIMENSION AVAILABILITY

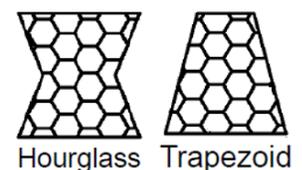
EcoTempTM 616/617/618/619

Height(H)*	Width(W)	Length(L)
1.0mm, 1.8mm, 2.6mm, 3.4mm	W ≥ 2mm	L ≥ W
5.0mm, 6.5mm, 9.8mm, 13.0mm	W ≥ 4.8mm	L ≥ 5mm

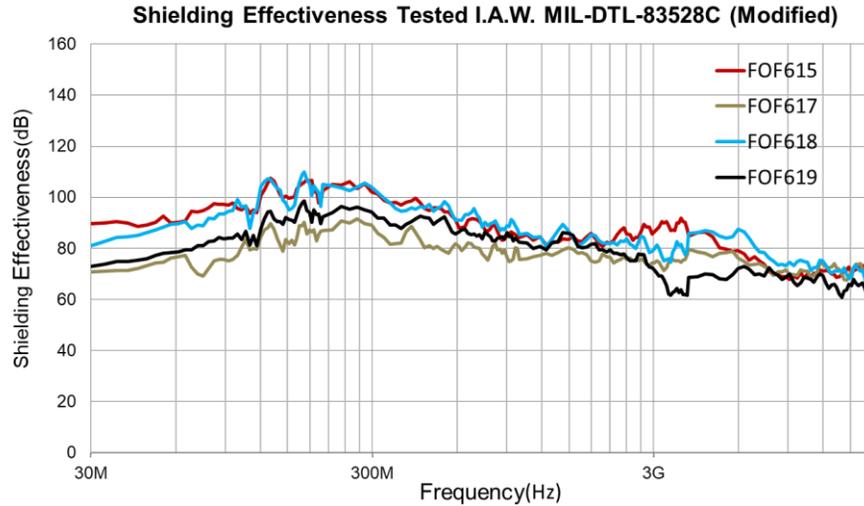
*Other custom height within 1mm to 10mm is available with MOQ.

EcoTempTM 615

EcoTempTM 615 is in hourglass, trapezoid, or custom shape. In general, the dimension of either height, width, or length is 5-10 mm. Per request, Laird Engineering Team will evaluate and comment if this is available.

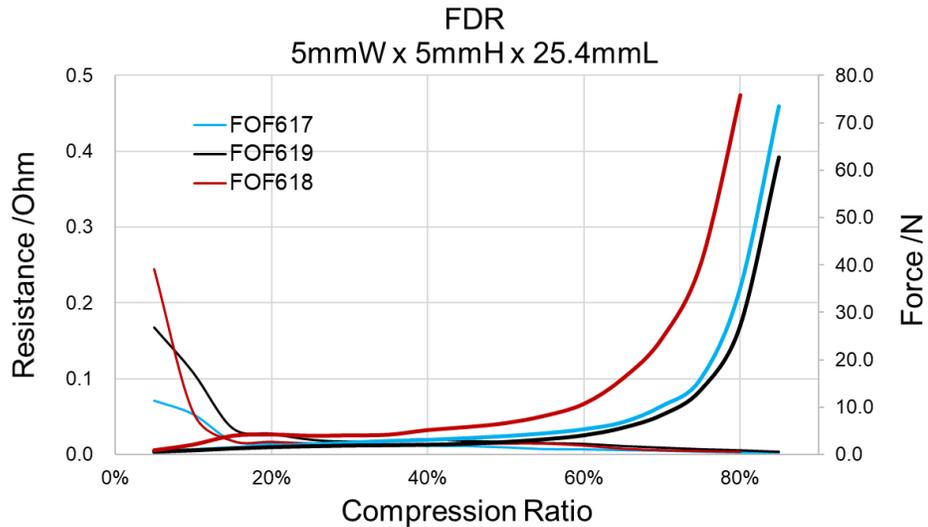


SHIELDING EFFECTIVENESS



Note: The value of 615 is based on a 5mm x 5mm custom profile; for reference only.

FDR GRAPH



USA: +1.866.928.8181
Europe: +49.8031.24600
Asia: +86.755.2714.1166
www.laird.com



EMI-ENSL-EcoTempTM Selection Note 03232023

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