

X1R Gaskets

EcoTemp™ 85 Fabric-over-Foam



UL 94V0 RATED NI/CU POLYESTER TAFFETA (PTAF) FABRIC-OVER-FOAM

Laird's EcoTemp™ 85 X1R EMI gaskets provide excellent EMI shielding performance for customers where EMI issues occur. The gaskets are composed of electrically conductive fabric wrapped around a newly developed urethane foam core which will satisfy the requests for higher temperature resistance and lower compression set. They are supplied with either a conductive or non-conductive pressure sensitive adhesive (PSA), and can be equipped with an Extended Release Liner (ERL) on the adhesive. The gasket is a halogen-free, UL 94V0 rated product that can be created with cross-section profiles such as rectangle, D, C, P, T, knife, bell shapes, and others. The gaskets can be further customized to an application by die-cutting, hole punching, notching, etc.

FEATURES **ROHS**

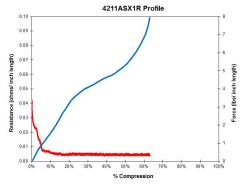
- Fabric-over-Foam gaskets are RoHS compliant
- Halogen-free per IEC-61249-2-21 standard
- UL 94V0
- Low surface resistivity of < 0.05 Ω/□ provides excellent conductivity
- Shielding effectiveness of >100 dB across a wide spectrum of frequencies
- Fabric is highly conductive to provide good EMI shielding and grounding
- Laird's proprietary coating prevents fabric fraying and fingerprinting
- Available with conductive or non-conductive PSA
- Many cross-section profiles available such as rectangle, D, C, P, T, knife, bell and more
- Profile gaskets can be cut to specified lengths, kiss-cut on release liner, or mitered to form frame configurations
- Higher performance with lower compression set values

MARKETS

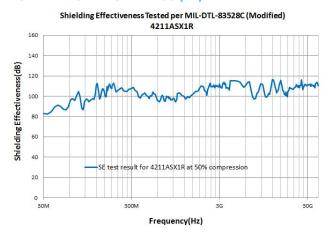


- LCD and Plasma TV
- Medical equipment
- Servers
- Printers
- Laptop computers
- Networking equipment
- Desktop computers
- Telecommunications cabinets

FORCE/DISPLACEMENT/RESISTANCE (FDR)



SHIELDING EFFECTIVENESS (dB)



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



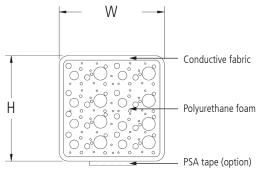
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ltem	Unit	Value	Test Method		
Shielding Effectiveness	dB		MIL-DTL-83528C (Mod.)*		
30MHz-300MHz		101			
300MHz-3GHz		102			
3GHz -30GHz		108			
Surface Resistivity	Ω/□	< 0.05	ASTM F390		
Compression Set @ 70°C	%	< 10	ASTM D3574		
Compression Set @ 85°C	%	< 15	ASTM D3574		
Operation Temperature	°C	-40 to 85	-		
Flame Retardant	UL 94V0 (UL file No.E170327 designation V0 041)				
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.				

^{*}Part tested 5mm H x 10mm W rectangle

COMPOSITION OF PRODUCT



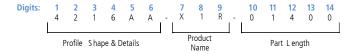
PRESSURE SENSITIVE ADHESIVE (PSA TAPE) OPTIONS

Name	Туре	Thickness (mm)	Peel strength on stainless steel (JIS Z 0237)	Z-axis Resistance
LT-301	Conductive PSA	0.09	> 1.3 kgf/25 mm	< 0.05 Ω
LT-350	PSA	0.12	> 2 kgf/25 mm	-

^{*}Other PSA can be provided. Contact Laird Engineering.

ORDERING INFORMATION

PART NUMBER EXAMPLE



EMI-DS-FOF-X1R 072214

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