

# 221 EMI Gaskets

# Fabric-over-Foam



### **UL 94HB RATED NI/CU POLYESTER TAFFETA FABRIC-OVER-FOAM**

Laird Technologies' Fabric-over-foam (FoF) 221 EMI gaskets provide excellent EMI shielding performance for customers where EMI issues occur. The 221 series EMI gaskets are composed of electrically conductive fabric wrapped around a thermo-plastic elastomer (TPE) core. 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 221 is a UL 94HB rated product that can be created with cross-section profiles such as rectangle, D, knife, bell shapes, and others. The 221 EMI gaskets can be further customized to an application by die-cutting, hole punching, notching, etc.

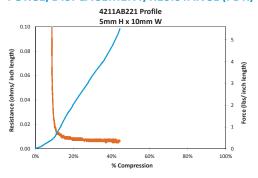
### FEATURES **FROHS**

- · Fabric-over-Foam gaskets are RoHS compliant
- UL 94HB
- Low surface resistivity of < 0.07 Ω/□ provides excellent conductivity
- Shielding effectiveness of >75 dB across a wide spectrum of frequencies
- Low compression forces allow for use of lighter materials
- Fabric is highly conductive to provide good EMI shielding and grounding
- Laird Technologies' proprietary coating prevents fabric fraying and fingerprinting
- Available with conductive or non-conductive PSA
- Many cross-section profiles available such as rectangle, D, knife, bell and more
- Profile gaskets can be cut to specified lengths, kiss-cut on release liner, or mitered to form frame configurations

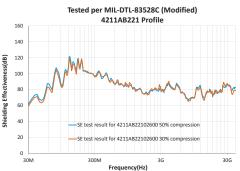
### **MARKETS**

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

### FORCE/DISPLACEMENT/RESISTANCE (FDR)



# **SHIELDING EFFECTIVENESS (dB)**



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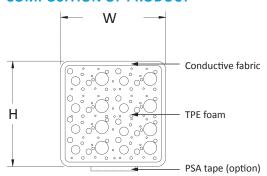
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ITEM	UNIT	VALUE	TEST METHOD	
Shielding Effectiveness	dB		MIL-DTL-83528 (Mod.)*	
30MHz-300MHz		97		
300MHz-3GHz		86		
3GHz-30GHz		78		
Surface Resistivity	Ω/□	< 0.07	ASTM F390	
Compression Set @ 70 °C	%	< 20	ASTM D3574*	
Operation Temperature	°C	-40 to 70	-	
Flame Retardant	UL 94HB (UL file No.E170327 designted HB001)			
Hazardous Substance	Compliant with RoHS (Directive 2011/65/EU)			
Shelf Life	12 months at 23°C/ 60% R.H.			

<sup>\*</sup> 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	-

<sup>\*</sup>Other PSA can be provided. Contact Laird Technologies engineering.

Values presented have been determined by standard test methods and are typical values not to be used for specification purposes.

# **ORDERING INFORMATION**

## **PART NUMBER EXAMPLE**



EMI-DS-FOF-221 060215

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