



## 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.

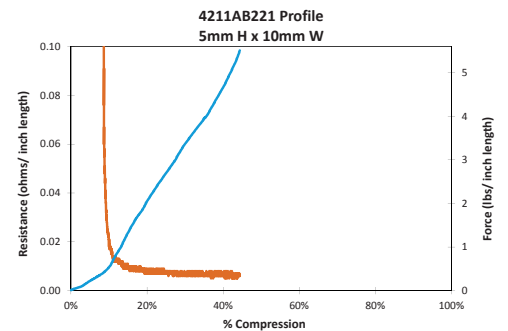
### FEATURES

- Fabric-over-Foam gaskets are RoHS compliant
- UL 94HB
- Low surface resistivity of  $< 0.07 \Omega/\square$  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

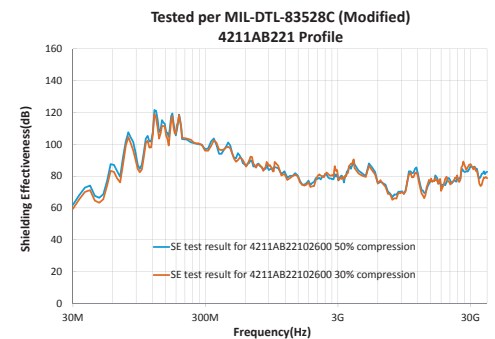
### MARKETS

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

### FORCE/DISPLACEMENT/RESISTANCE (FDR)



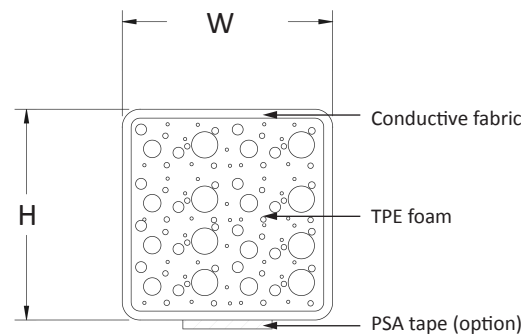
### SHIELDING EFFECTIVENESS (dB)



ITEM	UNIT	VALUE	TEST METHOD
Shielding Effectiveness	dB		MIL-DTL-83528 (Mod.)*
30MHz-300MHz		97	
300MHz-3GHz		86	
3GHz-30GHz		78	
Surface Resistivity	$\Omega/\square$	< 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 designated HB001)		
Hazardous Substance	Compliant with RoHS (Directive 2011/65/EU)		
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	Type	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 $\Omega$
LT-350	PSA	0.12	> 2 kgf/25 mm	-

\*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

Digits:	1	2	3	4	5	6	-	7	8	9	-	10	11	12	13	14	
	4	2	1	1	A	B		2	2	1		0	1	4	0	0	
	Profile Shape & Details							Product Name				Part Length					

EMI-DS-FOF-221 060215

Any information furnished by Laird and its agents is believed to be accurate and reliable. All specifications are subject to change without notice. Responsibility for the use and application of Laird materials rests with the end user, since Laird and its agents cannot be aware of all potential uses. Laird makes no warranties as to the fitness, merchantability or suitability of any Laird materials or products for any specific or general uses. Laird, Laird Technologies, Inc or any of its affiliates or agents shall not be liable for incidental or consequential damages of any kind. All Laird products are sold pursuant to the Laird Technologies' Terms and Conditions of sale in effect from time to time, a copy of which will be furnished upon request. © Copyright 2015 Laird Technologies, Inc. All Rights Reserved. Laird, Laird Technologies, the Laird Logo, and other marks are trademarks or registered trademarks of Laird Technologies, Inc. or an affiliate company thereof. Other product or service names may be the property of third parties. Nothing herein provides a license under any Laird or any third party intellectual property rights.