



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## 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.

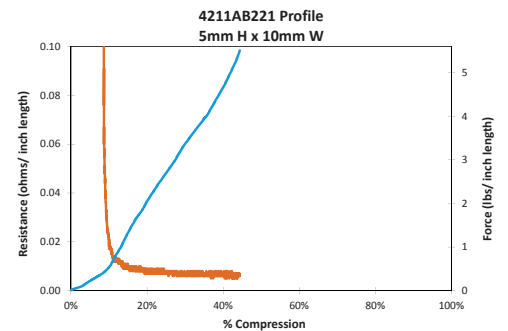
### FEATURES

- 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

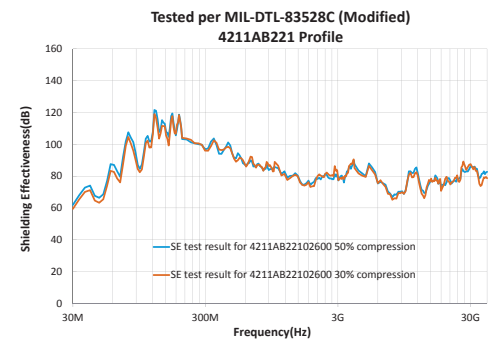
### MARKETS

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

### FORCE/DISPLACEMENT/RESISTANCE (FDR)



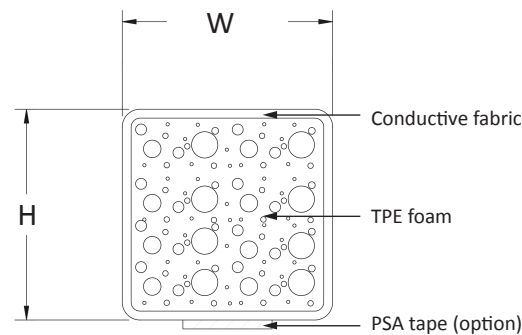
### SHIELDING EFFECTIVENESS (dB)



| 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

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