

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.

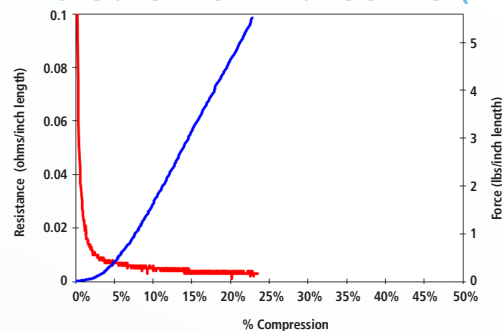
FEATURES

- Fabric-over-Foam gaskets are RoHS compliant
- UL 94HB
- Low surface resistivity of $< 0.07 \Omega/\square$ provides excellent conductivity
- Shielding effectiveness of >100 dB across a wide spectrum of frequencies
- Extremely low compression forces allow for use of lighter materials
- Fabric is highly conductive to provide good EMI shielding and grounding
- Abrasion resistant metallized fabrics show virtually no degradation in electrical performance after 1,000,000 cycles
- 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

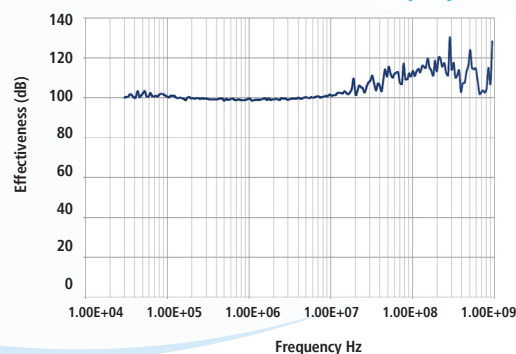
MARKETS

- 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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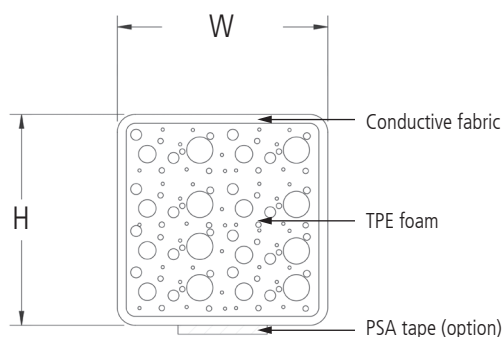
USA: +1.866.928.8181

Europe: +49.0.8031.2460.0

Asia: +86.755.2714.1166

Item	Unit	Value	Test Method
Shielding Effectiveness			
at 100 MHz		108	SAE-ARP-1705(Mod.)
at 1 GHz	dB	110	(W10 mm x H8 mm)
Surface Resistivity	Ω/\square	< 0.07	ASTM F390
Compression Set	%	< 20	ASTM D3574
Operation Temperature	°C	-40 ~ 70	-
Flame Retardant	UL 94HB (UL file No.E170327)		
Hazardous Substance	Compliant with RoHS (Directive 2011/65/EU)		
	Antimony-free		
Shelf Life	12 months at 23°C/ 60% R.H.		

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 Ω
LT-350	PSA	0.12	> 2 kgf/25 mm	-

*Other PSA can be provided. Contact Laird Technologies engineering.

ORDERING INFORMATION

PART NUMBER EXAMPLE

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

EMI-DS-FOF-221 0812

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Mouser Electronics

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Laird Performance Materials:

<u>4049PA22101800</u>	<u>4520PA22101800</u>	<u>4096PA22101800</u>	<u>4105AB22102600</u>	<u>4182AP22107400</u>	<u>4202AB22109600</u>
<u>4228AB22100510</u>	<u>4244AB22106900</u>	<u>4295AD22109600</u>	<u>4094PA22101800</u>	<u>4906AE22109600</u>	<u>4053PA22101800</u>
<u>4693PA22101800</u>	<u>4692PA22101800</u>	<u>4056PA22101800</u>	<u>4184PA22101800</u>	<u>4797PA22101800</u>	<u>4742PA22101800</u>
<u>4789PA22101800</u>	<u>4283PA22101800</u>	<u>4694PA22101800</u>	<u>4242PA22101800</u>	<u>4078PA22101800</u>	<u>4522PA22101800</u>
<u>4788PA22101800</u>	<u>4181PA22101800</u>	<u>4202PA22101800</u>	<u>4046PA22101800</u>	<u>4209PA22101800</u>	<u>4502AB22100594</u>
<u>4047AB22109600</u>	<u>4699HA22109600</u>	<u>4212PA22101800</u>	<u>4186PA22101800</u>	<u>4609PA22101800</u>	<u>4696AB22104800</u>
<u>4697AB22100106</u>	<u>4697AB22102600</u>	<u>4795AB22103937</u>	<u>4502AB22100160</u>	<u>4502AB22100580</u>	<u>4049AB22103936</u>
<u>4502AB22100156</u>	<u>4608AB22101200</u>	<u>4692AC22102400</u>	<u>4694AB22102800</u>	<u>4694AB22109600</u>	<u>4788AC22101600</u>