

Technical information : HIGH FREQUENCY & MICROWAVE ABSORBERS

<p>Description:</p> <p>Absorbent materials are used for electromagnetic insulation and electromagnetic emission absorption by Joule effect. Several materials are available: wide range absorption foam, absorber or elastomer base absorbers with low thickness and frequency tuned. Our range of products are specifically offered for radio frequency (RFID) applications using very thin absorbers (0.1mm to 3mm). Production parts can be available in rolls for automatization (deposit on automated lines).</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e0f0ff;">Material</td> <td>Urethane, silicone, nitrile, neoprene</td> </tr> <tr> <td style="background-color: #e0f0ff;">Manufacturing processes</td> <td>Molding, impregnated foams, on-line injection</td> </tr> <tr> <td style="background-color: #e0f0ff;">Packaging</td> <td>Sheets, Bulk</td> </tr> <tr> <td style="background-color: #e0f0ff;">Options</td> <td>Cutting on drawing, adhesive, stacked with other materials like insulator, aluminum strip.</td> </tr> <tr> <td style="background-color: #e0f0ff;">Prototyping</td> <td style="text-align: center;">-</td> </tr> </table>	Material	Urethane, silicone, nitrile, neoprene	Manufacturing processes	Molding, impregnated foams, on-line injection	Packaging	Sheets, Bulk	Options	Cutting on drawing, adhesive, stacked with other materials like insulator, aluminum strip.	Prototyping	-
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Absorber types	Reference	Frequency	Absorption	Type
Flat foam absorbers	FFTF / FFTM	FFTM : 1GHz to 3GHz FFTF : 2GHz to 8GHz	FFTM : 15 to 30 dB FFTF : 10 to 25 dB	FOAM
Pyramidal foam absorbers	FFTA	It provides the highest broad band, from 80MHz to 60 GHz	5 to 50 dB	FOAM
Absorber sheets (soft ferrites)	FMAB	Intended for low frequency range from 100MHz	1 to 5 dB (according to the thickness)	FERRITE
Rubber absorber	FHRT / FRTS	FHTR : 2 GHz to 80 GHz FRTS : 8 GHz ~ 18 GHz	FHTR : -8 to -20 dB FRTS : ~ -25 dB	SILICONE