

Technical information : SHIELDING WINDOWS

Description:

Shielding windows are used for displays or openings. They offer a combination of **electromagnetic protection** and **transparency**. Very thin metallic wire mesh (stainless steel or copper) are laminated or molded in glass or polycarbonate material. Shielding windows provide a very good electromagnetic **shielding** and an optimal optic transparency. Transparent shielding film coatings (ITO or copper chemical etching) can be applied.

These products are **customized** based on customer specifications (performance, environment, dimensions, mechanic resistance...). We also offer support for the concept and the mechanical integration of shielding windows. We can also provide customers with the performance measurements.

Material	Polycarbonate, Acrylic, Glass
Manufacturing processes	Molded windows, laminated windows, laminated films
Packaging	-
Options	Anti-reflection treatment, filter, Busbar silver painting, EMI gasket
Prototyping	-

RFI / EMC SHIELDED WINDOWS

- Optical filters with micro-fine mesh or ITO as the shielding element
- Allyl carbonate filters with cast in mesh
- Plastic or glass windows with the mesh laminated in
- Plastic or glass filters with ITO deposition direct to surface

	Openings	Frequency				
	per inch	1 MHz	100 MHz	400 MHz	10 GHz	Area %
Mesh	per inch	1 MHz	100 MHz	400 MHz	10 GHz	Area %
Copper	100	90	70	-	20	81
Copper	100	107	85	70	-	64
Stainless	80	106	82	64	34	84
Stainless	100	128	92	80	74	81
Stainless	80 x 60	102	103	75	43	84

Filter types	Available coatings	Shieldings	
		Mesh types	ITO
ALLYL CARBONATE	<u>FOR ACRYLIC AND POLYCARBONATE</u> - Abrasion resistance - Solvent resistance - Anti-glare (matt coating) - Anti-mist - Anti-Newton ring - Multi-layer anti-reflective (limited to a small range of products)	LAMINATED MESH	Indium Tin Oxide (ITO) FILM
ACRYLIC			
POLYCARBONATE			
GLASS		MESH PERFORMANCE	