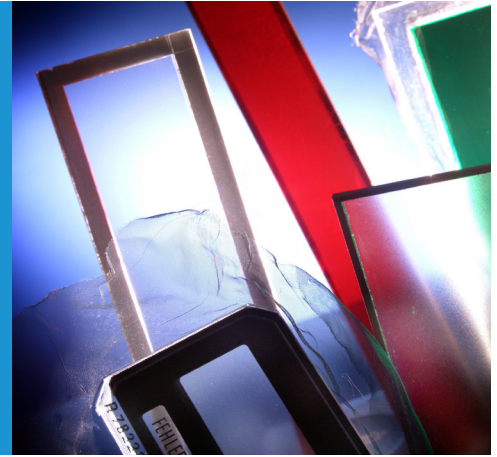




ZYTRONIC DATA SHEET

ZyShield

RFI mesh optical filters



OPERATION

Electromagnetic Interference (EMI) can be described as any form of electrical disturbance, signal or noise which interferes with the ability of electrical or electronic equipment to function correctly.

The ZyShield range of RFI filters are designed to give the highest levels of RFI/EMI shielding combined with excellent optical performance. Display quality micro-fine mesh, incorporating proprietary coating is laminated or bonded to glass, acrylic or polycarbonate to offer the most effective and unique solution to shielded display problems.

APPLICATIONS

MILITARY DISPLAYS

- Battlefield tactics systems
- Communication systems
- Hand-held computers
- Secure laptop computers

SECURE AREAS

- Computer rooms
- Test chambers
- Buildings

INFORMATION DISPLAYS

- Airport terminals
- Rail terminals
- Bus terminals

GENERAL

- Telecommunication racks
- Test and measurement equipment
- Navigation equipment
- Medical equipment
- Radar applications



ZyShield SPECIFICATION

EMI SHIELDING PERFORMANCE OF MESH

Mesh	O.P.I (Opening)	Wire Diameter	E Field Attenuation (dB)			Plane Wave Attenuation (dB)			Transmission (%)
			1MHz	10MHz	100MHz	400MHz	1GHz	10GHz	
Copper	70	0.003	110	111	98	68	64	38	62
Copper	100	0.001	>120	>120	100	67	54	50	81
Copper	100	0.002	107	111	85	70	58	-	64
Copper	145	0.002	128	112	106	84	82	64	51
S.Steel	+50	0.001	100	100	75	60	50	37	90
S.Steel	50	0.002	94	90	82	58	55	28	81
S.Steel	+80	0.002	106	88	82	64	60	34	71
S.Steel	+80x60	0.001	102	105	103	75	60	43	84
S.Steel	+100	0.001	128	112	92	80	86	74	81
S.Steel	+165	0.002	137	124	106	100	81	61	45
S.Steel	+200	0.0016	128	108	98	88	86	68	46
S.Steel	+230	0.001	140	120	95	94	80	60	46

+Denotes a silver plating process prior to blackening

The above results are based upon 300mm x 300mm mesh samples tested by independent test houses under laboratory conditions, consistent with MIL-STD-285 and are for guidelines only.

The transmissions are theoretical calculations based upon mesh only, amendments to the transmission must be made in accordance with the optical characteristics of the carrier or substrate medium.

QUALITY

See cosmetic specification www.zytronic.co.uk

APPROVALS

RoHS compliant

CE, FCC & UL approved www.zytronic.co.uk

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