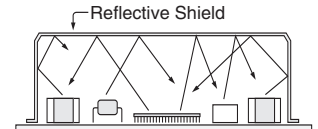


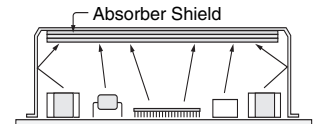
microwave absorbers

Microwaves emanating from electronic components such as the printed circuit board sketch at the right are addressed in three ways: sometimes no shielding is required; a reflective shield in the form of a local cover for the components, or the entire electronic enclosure can be fitted up as a shield; an absorber pad shield which soaks up the RF and converts it to imperceptible heat energy.

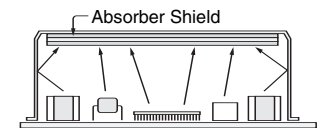
The latter Absorber Shield method deals with the unwanted microwave energy right at the source and prevents re-radiation and reflection of the signals so that neighboring components are unaffected.



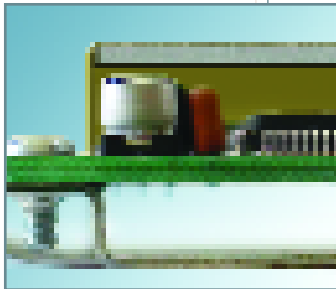
Typical shielding approach allows reflected radiation to affect neighboring components.



Noise absorber approach assimilates radiated frequencies and converts to imperceptible heat energy.



Absorbers shown in use below and above Printed Circuit Board.



microwave absorber up to 116 GHz: MA series

The MA series is a high frequency microwave noise absorber in a range of formulations addressing 2.5GHz to 116GHz radiations from electronic components. It has a multi-layered structure of screened coating matrixes adjusted for discrete impedance matching to absorb microwaves from a wide range of angles.

applications:

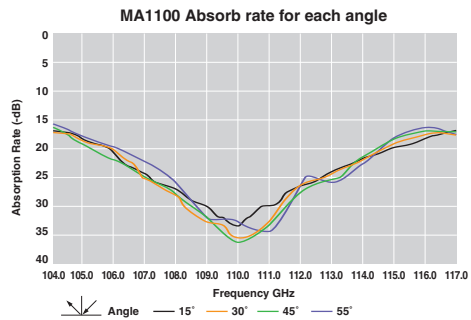
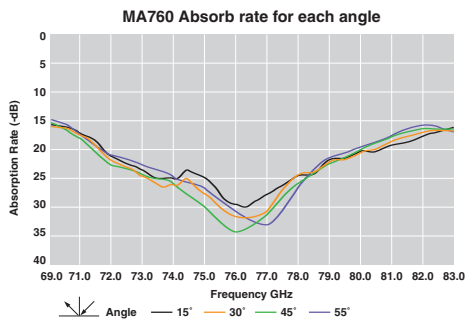
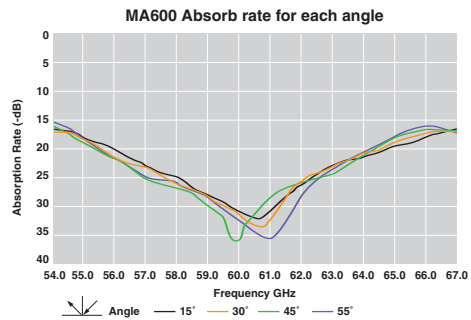
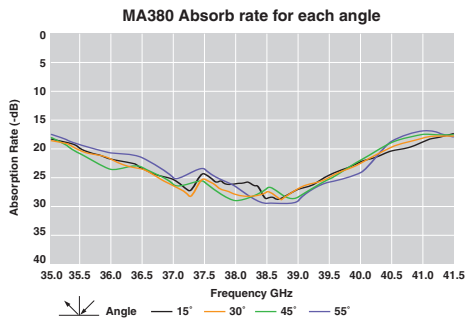
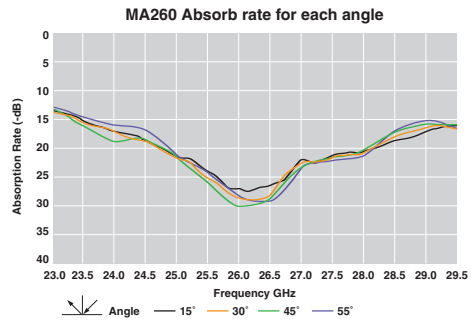
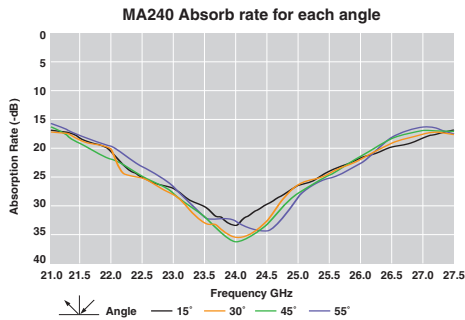
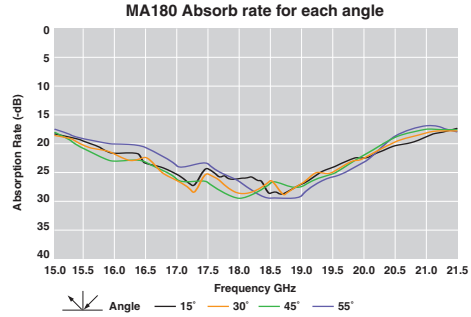
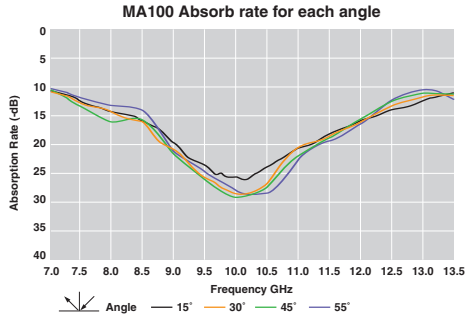
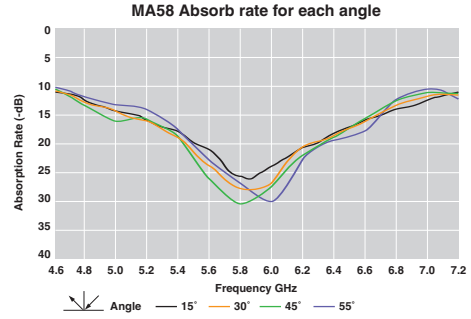
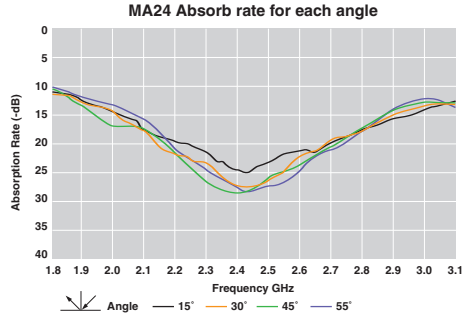
PCB's, PCB components, electronic enclosures, shielded boxes, RF equipment, VICS base antennas, radar equipment, mobile phone devices, architectural shielding, RF test chambers, shielded facilities

Material Characteristic	Measure
Frequency range	2.0 MHz - 116.0 GHz
Peak frequency choices	2.4, 5.8, 10, 18, 24, 26, 38, 60, 76, 110 GHz
Temperature range	-20°C to 110°C
Flammability rating	UL94-V0
Adhesive: temperature	0°F to 180°F -18°C to 83°C
tack	8.4 p.s.i. (stainless steel)
shear	300+ hrs. @ 2 p.s.i. @ 22°C
Dimensions: standard	7.875" W x 15.75" L x .138" max. 200,0 x 400,0 x 3,5
maximum	3'-0" W x 65'-0" L x .138" max 1,0 x 20,0 M x 3,5

PART No.	Width	Length	Thickness	Frequency Range @ -20 dB	Peak Frequency - Attenuation
MA24	7.875	15.75	.138	2.2 - 2.6 GHz	2.4GHz @ -21.0dB
MA58	7.875	15.75	.100	5.5 - 6.2 GHz	5.8GHz @ -23.5dB
MA100	7.875	15.75	.055	9.2 - 10.8 GHz	10.0GHz @ -23.5dB
MA180	7.875	15.75	.040	16.5 - 19.5 GHz	18.0GHz @ -24.1dB
MA240	7.875	15.75	.024	22.5 - 25.5 GHz	24.0GHz @ -24.3dB
MA260	7.875	15.75	.027	25.2 - 27.0 GHz	26.0GHz @ -21.4dB
MA380	7.875	15.75	.024	35.8 - 40.2 GHz	38.0GHz @ -21.4dB
MA600	7.875	15.75	.035	52.0 - 64.2 GHz	60.0GHz @ -21.6dB
MA760	7.875	15.75	.035	72.0 - 80.0 GHz	76.0GHz @ -20.0dB
MA1100	7.875	15.75	.035	104.0 - 116.0 GHz	110.0GHz @ -21.2dB

microwave series: typical absorption rate by part number

The following data displays the insertion loss characteristics of each formula of absorber material by part number.



FerriShield®
Interference Control Components

Mulberry Professional Plaza • 426 Mulberry Street, Suite 300 • Scranton, PA 18503
Tel: 570.961.5617 • Fax: 570.969.6274 • e-mail: info@ferrishield.com • www.ferrishield.com

ISO 9001:2000 registered

All dimensions in inches millimeters ±1.6%, or ±0.005" 0,13 mm minimum