

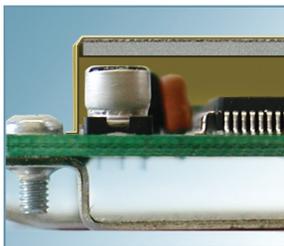
MICROWAVE ABSORBERS

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.

MICROWAVE ABSORBER: UP TO 116GHz - MA SERIES.

The MA series is a high frequency microwave noise absorber in a range of formulations addressing 2.0GHz 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.



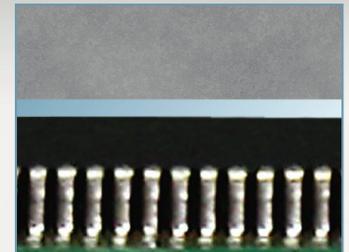
APPLICATIONS:

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.

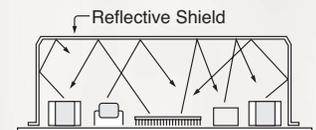
Note that laminations of multiple part numbers, or the same part number rotated 90° to the other, may effectively yield a combination of results, or increased attenuation.

Material Characteristic	Measure
Frequency Range	2.0 MHz - 116.0 GHz
Peak Frequency Choices	2.4, 5.8, 10, 18, 24, 24, 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 ASTM D-3575
Adhesive: Tack	8.4 p.s.i. (stainless steel) ASTM D-3575
Adhesive: Shear	300+ hrs. @ 2 p.s.i. @ 72°F ASTM D-3575
Dimensions: Standard	7.875" W x 15.75" L x .138" max 200.0x400.0x3.5
Dimensions: Maximum	3'-0" W x 65'-0" L x .138" max 1.0x20.0Mx3.5

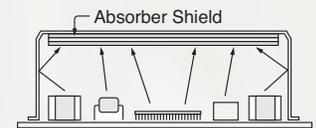
Part No.	Width	Length	Thickness	Frequency Range @-20dB	Peak Frequency-Attenuation			
MA24	7.875	200.0	15.75	400.0	.177	4.5	2.2 - 2.6 GHz	2.4 GHz @ -21.0 dB
MA58	7.875	200.0	15.75	400.0	.100	2.6	5.5 - 6.2 GHz	5.8 GHz @ -23.5 dB
MA100	8.250	209.6	11.80	299.7	.055	1.4	9.2 - 10.8 GHz	10.0 GHz @ -23.5 dB
MA180	7.875	200.0	15.75	400.0	.040	1.0	16.5 - 19.5 GHz	18.0 GHz @ -24.1 dB
MA240	7.875	200.0	15.75	400.0	.024	0.6	22.5 - 25.5 GHz	24.0 GHz @ -24.3 dB
MA260	7.875	200.0	15.75	400.0	.027	0.7	25.2 - 27.0 GHz	26.0 GHz @ -21.4 dB
MA380	7.875	200.0	15.75	400.0	.024	0.6	35.8 - 40.2 GHz	38.0 GHz @ -21.4 dB
MA600	7.875	200.0	15.75	400.0	.035	0.9	52.0 - 64.2 GHz	60.0 GHz @ -21.6 dB
MA760	7.875	200.0	15.75	400.0	.035	0.9	72.0 - 80.0 GHz	76.0 GHz @ -20.0 dB
MA1100	7.875	200.0	15.75	400.0	.035	0.9	104.0 - 116.0 GHz	110.0 GHz @ -21.2 dB



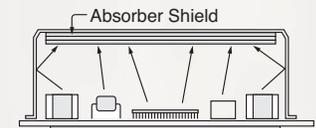
MICROWAVE ABSORBER



Typical shielding approach allows reflected radiation to affect neighboring components.



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



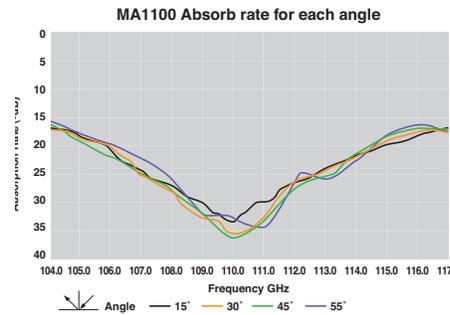
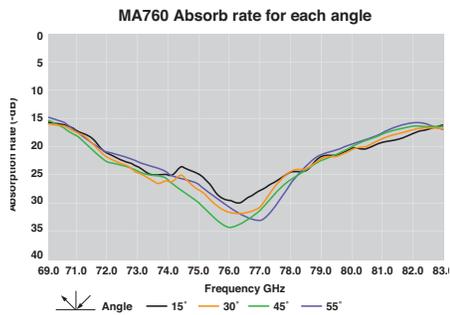
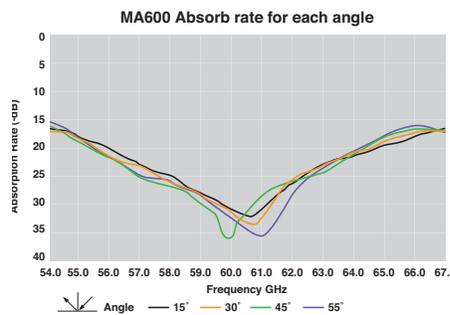
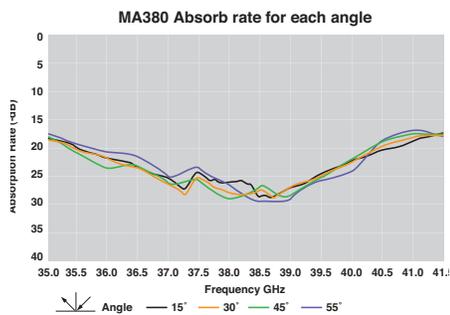
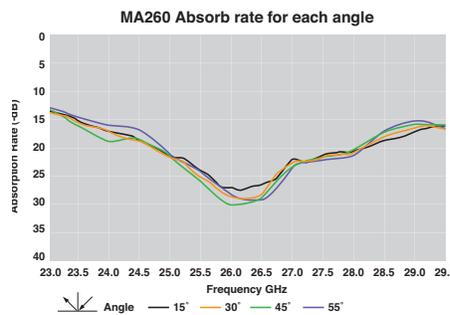
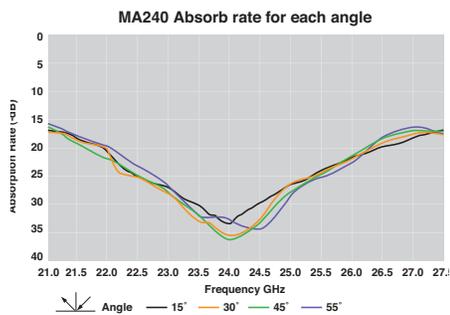
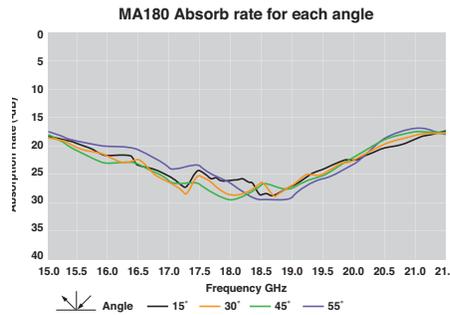
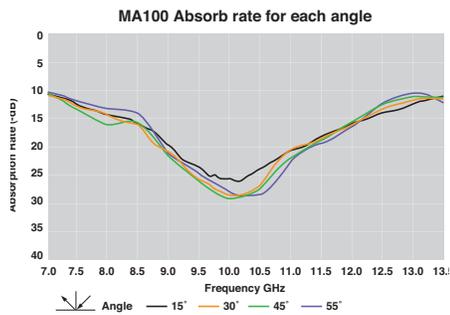
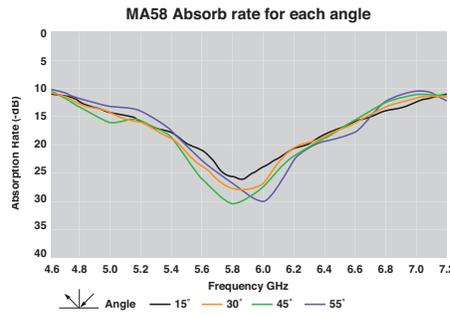
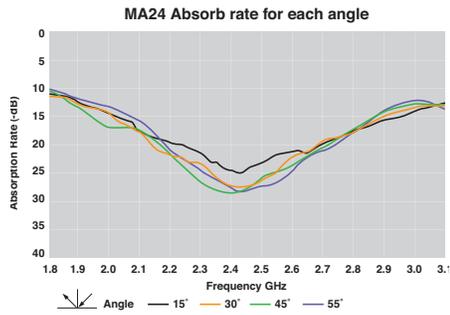
Absorbers shown in use below and above Printed Circuit Board.



MICROWAVE ABSORBERS

A passion in all we do
www.LeaderTechInc.com

ISO 9001: 2008 CERTIFIED  RoHS COMPLIANT



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.



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