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Product Bulletin **200-07**

MICROSORB MTL-W

Broadband Weatherproof Absorber

GENERAL DESCRIPTION

MICROSORB MTL-W is the weatherproof version of our popular **MTL** absorber series. **MTL** is a multi-layer broadband foam absorber available in a variety of thicknesses and performance values. (See **MICROSORB MTL** Technical Bulletin 200-06). **MTL-W** is simply **MTL** encased in a low loss, impervious neoprene coated nylon fabric to protect the absorber material from the elements. A drop off in electrical performance across the band of 2-3 dB will be experienced due to the introduction of the fabric but the absorber will operate out of doors.

MICROSORB MTL-W is easily attached with adhesive and its dark green color makes it cosmetically unobtrusive.

MTL-W is also available with an integral ground plane. This enables the absorber to achieve high performance even when attached to a non-conducting surface (wood, plastic, fiberglass, etc.). While some absorption will occur without a conductive backing the actual performance depends upon the configuration.

APPLICATION

MICROSORB Technologies offers the addition of

- Velcro® on the back surface, for ease of application.
- EMI Metal Foil on the back surface to provide a ground plane.
- Fabrication of material into shapes to your specific drawing requirements.

SPECIFICATIONS

Fabric Color Black, Green

Other Colors are available upon request.

Service Temperature, max, °F (°C) 250 (120)

Power Handling, W/cm^2 0.252

MICROSORB MTL PHYSICAL DATA			
Microsorb MTL Grade	Reflectivity Range > -20 dB	Thickness (inches)	WEIGHT (lbs/ft^2)
MTL-72	> 20 GHz	0.25	1.00
MTL-73	> 7.5 GHz	0.38	1.70
MTL-74	> 3.5 GHz	0.75	2.0
MTL-75	> 2.4 GHz	1.25	3.2
MTL77-	> 1.2 GHz	2.25	4.4
MTL-79	> 600 MHz	4.50	8.3

In operation it is important to note that the excellent electrical performance of MTL-W will deteriorate while the absorber surface is wet. This is due to the large reflections induced by the water. However, the performance will return when the surface is permitted to dry.

SIZES

MICROSORB MTL –W standard size is 2 ft by 2 ft but other sizes are available upon request. **M TL-W** can be precision manufactured to your specification.

Please contact your **MICROSORB** Customer Service Department to discuss your specific requirements.

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