

Flat Multilayer Broadband Absorber

JVMBF absorber product line is a complete range of high Performance Microwave Absorbers available in wide range of thickness and absorbencies. Variety of thickness gives the designer the opportunity to choose grades appropriate for specific frequencies and incidence angles by using low density, flexible foam, impregnated with a carbon formulation to achieve the desired electrical performance. The structure gives it the geometrical matching and the carbon dispersed gives the attenuation required. Provides Engineers with the building blocks needed in the design and construction of RF absorbing surface used in Anechoic Chambers, Antenna Assemblies and Microwave Measuring facilities

Features:

1. High Attenuation.
2. ROHS compliance for human safety.
3. Fire retardant finish as per NRL 8093 Sl.No.1,2 and 3
4. Long product life up to 15 years
5. Reflectivity Tested as per NRL ARCH Method.
6. Power handling capacity is 1.5 KW/Square meter. Option 3KW / square meter is available.
7. Absorbers are pasted by using compatible Neoprene Adhesive / velcro fixing / as per users request.



Multilayer High Power Broadband Microwave 500MHz-110 GHz

Typical Reflectivity for JVMBF226 Results will vary depending on Application

Features:

1. Lightweight, Flexible, Flat - Sheet Multilayer-Broadband absorber
2. Reticulated (open-cell) polyurethane foam sheet with a controlled conductivity gradient carbon loading system.
3. Electrically Conductive
4. Frequency Range from 500MHz-110 Ghz
5. Power Handling 3KW/Squaremeter
6. NRL 8093, SI. No. 1,2,3 Complied
7. Tested as per IEEE 1128-1998

Applications:

1. Antenna shrouds for low side-lobe reflector Antennas.
2. Standard sheets are 610 mm x 610 mm
3. Isolation of adjacent antennas and array elements
4. High Power Absorption.
5. Outdoor application (To be informed by user before placing order)



Specification:

Parameter	Specific Value
Model No.	JVMBF226
Thickness(mm)	10mm-110mm
Size (L x W)	610mm x 610mm
Density (kg/m ²)	28 ± 2
Tensile strength	>=1.5
Elongation (%)	>=350
Frequency Range	500 MHz-75 GHz
Reflectivity	>=-20 dB

Dimensions:

1. Also available in other sizes and customized configurations.
2. Various camouflaging and interference suppression applications



Multilayer Broadband Absorber(500MHz-110 Ghz)

JV Micronics manufactures Light Weight, Flexible Multilayer Absorber for the Antenna and RADAR application.

Features:

1. Flexible, Lightweight flat Sheet Multilayer Broadband Absorber
2. Open Cell PU foam impregnated by Carbon solution and fireRetardant
3. Frequency Range 500 MHz - 110 GHz
4. Electrically Conductive
5. NRL 8093 test 1,2 &3 complied
6. Power handling up to 1.5KW/Squaremeter
7. Tested as per IEEE 1128-1998 Standards

Applications:

1. Antenna shrouds for low side-lobereflector Antennas Isolation of adjacent antennas and array elements
2. Various camouflaging and interference suppression Applications
3. Reduce Coupling Effect between Antennas

Specification:

Parameter	Specific Value
Model No.	JVMBF0825
Thickness(mm)	15mm-110mm
Size (L x W)	610mm x 610mm
Density (kg/m ²)	36 + 1
Tensile strength	>=1.5
Elongation (%)	>=350
Frequency Range	500 MHz-40 GHz
Reflectivity	>=-20 dB

Instruction for Use:

1. The front surface should face the incident electromagnetic energy for proper performance to decipher from front and back, the back side of each panel is marked.
2. Absorber should be bonded to a metal surface for optional performance. Surface to be bonded with metal is painted yellow.