

OUTDOOR BROADBAND WEATHER PROOF ABSORBER

Lambda is a R&D organization approved by DSIR, Ministry of Science and Technology India has designed the weather proof Microwave Absorber to be used for Open Area Test Sites (OATS) to suppress ground reflections. The Absorbers are available in two different enclosures.

LAMBFU- WP1:

The LAMBFU-WP 1 absorber is enclosed in semi - ruggedized polyvinyl cabinet for Weather proof conditions (rain, humidity, dust and temperature resistive).

Features :

- ✍ Frequency range 500MHz – 40GHz
- ✍ Long life consistent performance
- ✍ Fire retardant-NRL 8093 test 1,2, & 3
- ✍ Environmental proof

Physical Dimensions:

Model	Height (Inches)	Length (inches)	Width (Inches)
LAMBFU-4-WP1	4.4	24.4	24.4
LAMBFU-6-WP1	6.4	24.4	24.4
LAMBFU-9-WP1	9.4	24.4	24.4
LAMBFU-12-WP1	12.4	24.4	24.4
LAMBFU-18-WP1	18.4	24.4	24.4
LAMBFU-24-WP1	24.4	24.4	24.4
LAMBFU-28-WP1	28.4	24.4	24.4
LAMBFU-30-WP1	30.4	24.4	24.4
LAMBFU-36-WP1	36.4	24.4	24.4

Reflectivity of LAMBFU-WP1:

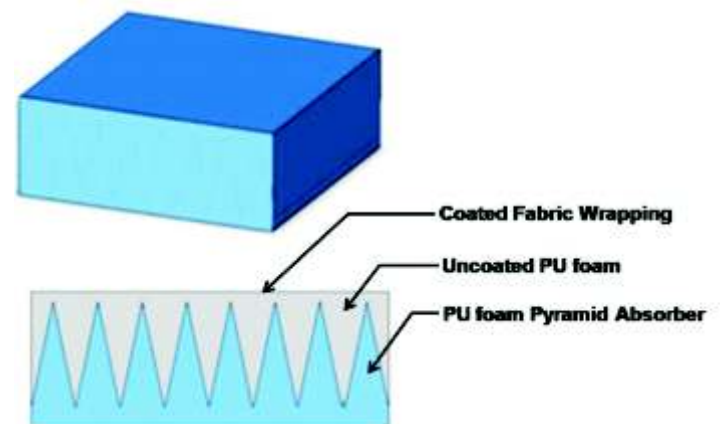
The guaranteed performance of the Weather proof absorber reflectivity measured in factory is as mentioned

Model	500MHz (dB)	1GHz (dB)	3GHz (dB)	5GHz (dB)	8GHz (dB)	12GHz (dB)	15GHz (dB)	18GHz (dB)	24GHz (dB)	40GHz (dB)
LAMBFU-4-WP1		-18	-22	-24	-29	-35	-39	-43	-46	-48
LAMBFU-6-WP1		-20	-24	-26	-32	-37	-41	-45	-47	-50
LAMBFU-9-WP1	-23	-25	-28	-32	-35	-38	-42	-46	-50	-50
LAMBFU-12-WP1	-25	-28	-32	-35	-38	-42	-44	-47	-50	-50
LAMBFU-18-WP1	-28	-30	-34	-38	-44	-46	-48	-50	-50	-50
LAMBFU-24-WP1	-32	-35	-38	-44	-46	-48	-50	-50	-50	-50
LAMBFU-28-WP1	-36	-38	-42	-46	-48	-48	-50	-50	-50	-50
LAMBFU-30-WP1	-40	-42	-46	-48	-48	-50	-50	-50	-50	-50
LAMBFU-36-WP1	-42	-44	-48	-50	-50	-50	-50	-50	-50	-50

LAMBFU-WP2:

This Absorber (LAMBFU-WP2) is designed from standard foam RF absorbers. A standard pyramidal foam absorber is the base product. A low loss unloaded PU Foam is matched to the absorber producing a rectangular shape. The mating absorber "block" is then covered with a "rubberized" cloth material and sealed.

These materials can withstand UV and very harsh weather conditions and have a life span of 1 to 5 years depending on the local environmental conditions. Storing the material in a covered area when not in use can increase the life expectancy.



LAMBFU-WP2 Absorber

PHYSICAL SPECIFICATIONS

Model	Height (Inches)	Length (inches)	Width (Inches)
LAMBFU-4-WP2	6.0	25.0	25.0
LAMBFU-6-WP2	9.0	25.0	25.0
LAMBFU-9-WP2	12.0	25.0	25.0
LAMBFU-12-WP2	15.0	25.0	25.0
LAMBFU-18-WP2	22.0	25.0	25.0
LAMBFU-24-WP2	28.0	25.0	25.0
LAMBFU-28-WP2	35.0	25.0	25.0
LAMBFU-30-WP2	37.0	25.0	25.0
LAMBFU-36-WP2	46.0	25.0	25.0

Reflectivity of LAMBFU-WP2:

The guaranteed performance of the Weather proof absorber reflectivity measured in factory is as mentioned:

Model	500MHz (dB)	1GHz (dB)	3GHz (dB)	5GHZ (dB)	8GHz (dB)	12GHz (dB)	15GHz (dB)	18GHz (dB)	24GHz (dB)	40GHz (dB)
LAMBFU-4-WP2		-18	-22	-24	-29	-35	-39	-43	-46	-48
LAMBFU-6-WP2		-20	-24	-26	-32	-37	-41	-45	-47	-50
LAMBFU-9-WP2	-23	-25	-28	-32	-35	-38	-42	-46	-50	-50
LAMBFU-12-WP2	-25	-28	-32	-35	-38	-42	-44	-47	-50	-50
LAMBFU-18-WP2	-28	-30	-34	-38	-44	-46	-48	-50	-50	-50
LAMBFU-24-WP2	-32	-35	-38	-44	-46	-48	-50	-50	-50	-50
LAMBFU-28-WP2	-36	-38	-42	-46	-48	-48	-50	-50	-50	-50
LAMBFU-30-WP2	-40	-42	-46	-48	-48	-50	-50	-50	-50	-50
LAMBFU-36-WP2	-42	-44	-48	-50	-50	-50	-50	-50	-50	-50

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