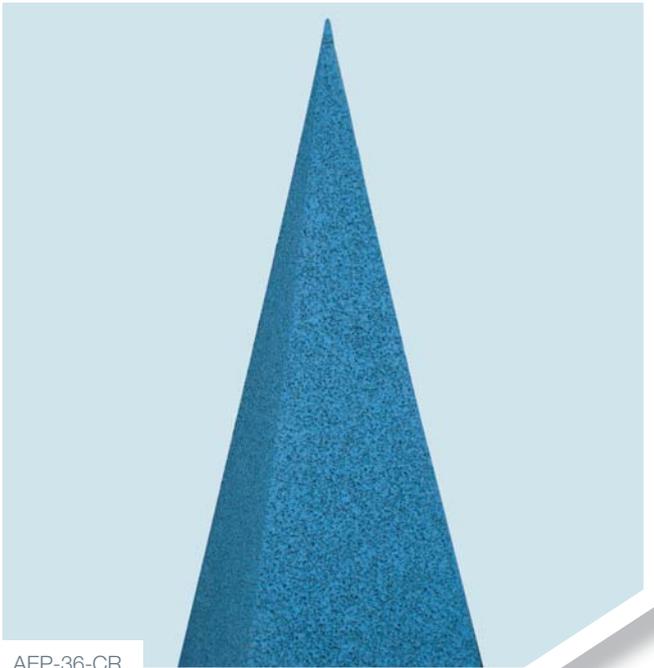


Clean Room RF Absorbers - AEP-X-CR Series



AEP-36-CR

Applications:

- Satellite testing facilities
- Space applications

Key features:

- For use in Class 100,000 clean room environments - AEMI CR1
- For use in Class 10,000 clean room environments - AEMI CR2

Shape:

- Pyramidal
- Wedge
- Flat
- Convolute

Frequency band:

- From 125 MHz to 18 GHz

Standard base size:

- 2' x 2' (60.96 cm x 60.96 cm)

Height:

- Standard: 4" to 48" (10.2 cm to 121.9 cm)
- Custom sizes available up to 96" (243.8 cm)

Operating conditions:

- Temperature: 70° F +/- 10° (21° C +/- 3°)
- Relative humidity: 55 % RH +/- 15 %

Indoor/outdoor:

- Indoor

Treatment:

- CR1 - Latex coating
- CR2 - Rubberized coating

Related certifications:

- FS209E
- ISO14644
- NRL 8093 - 1, 2, 3

Ordering code:

- AEP-XX - CRX, where XX designates absorber height in inches and CRX designates Clean Room Class

1/ Description

AEMI CR1 Clean Room RF Absorbers have a clear latex coating that completely covers the absorber, including the bottom. They are treated for use in class 100,000 clean room environments. This treatment does not negatively affect the overall performance. These absorbers are used extensively in satellite assembly facilities as well as other aerospace applications.

AEMI CR2 Clean Room RF Absorbers have a rubberized treatment that completely covers the absorber, including the bottom. They are treated for use in class 10,000 clean room environments. This treatment does not ne-

gatively affect the overall performance. These absorbers are used extensively in satellite assembly facilities as well as other aerospace applications.

2/ Unique Manufacturing Process

After the standard manufacturing process, these materials undergo further treatment to remove any loose debris from the manufacturing process. The material is coated with a special latex binder or plasticized coating (depending on class).

3/ Specifications

		AEP-4-CR	AEP-6-CR	AEP-8-CR	AEP-12-CR	AEP-18-CR	AEP-24-CR	AEP-36-CR	AEP-48-CR	
Height	in	4	6	8	12	18	24	36	48	
	cm	10.2	15.2	20.3	30.5	45.7	61	91.4	121.9	
Pyramids	per block	144	64	64	36	16	9	4	4	
Absorption @ Normal Incidence	@ 125 MHz	dB								28
	@ 250 MHz	dB								30
	@ 500 MHz	dB								35
	@ 1.0 GHz	dB								30
	@ 3.0 GHz	dB								35
	@ 6.0 GHz	dB								37
	@ 10.0 GHz	dB								40
Absorption @ Normal Incidence	@ 13.0 GHz	dB								35
	@ 15.0 GHz	dB								40
	@ 3.0 GHz	30	33	37	40	45	45	50	50	
	@ 6.0 GHz	35	37	45	45	50	50	50	50	
	@ 10.0 GHz	40	40	50	50	50	50	50	50	
Power	Watt/in²	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
	Watt/m²	775	775	775	775	775	775	775	775	
Weight	lbs/pc.	2.5	3	4.5	6	9	13.5	18.5	25	
	kg/pc.	1.1	1.4	2	2.7	4.1	6.1	8.4	11.3	

AEP-6-CR mechanical drawing

