

# **FERRITE TILES**

Premium Quality Excellent Performance in Low Frequency

# FOR EMC CHAMBERS

#### CHENNAILABB

Precision machined ferrite tiles and panels for EMC chambers to support from 30 MHz to 1 GHz. Chennailabb Ferrite tiles are precision machined to have almost zero dimensional tolerance which helps in proper alignment of tiles, reduce gap between tiles resulting better performance and Normalized site attenuation of EMC chambers per ANSI C63.4 and applications per CISPR 16-1-4 and IEC 61000-4-3.

### >> FEATURES

- High precision dimension
- Option available for tile and panel
- Easy for installation by glue or screw
- No physical and performance degradation over time
- Impedance matched with DMC polyurethane and Polypropylene hybrid absorbers
- Low thickness takes less space
- Absorbs electromagnetic waves at lower frequency of application typically between 30 MHz to 1 GHz
- Fire resistant
- Size: 100 mm x 100 mm Tiles and 300 mm x 300 mm panels (option available for bigger panels)

#### TYPICAL REFLECTIVITY AT NORMAL INCIDENCE OVER FREQUENCY RANGE IN - dB

MODEL NUMBER	30	100	300	500	700	1000
	MHz	MHz	MHz	MHz	MHz	MHz
C-LABB-FT-6.7	25.5	38	19.5	16	12	10

**NOTE**: Values shown are based on testing of laboratory test product and represent data that falls within normal range purposes. Construction standards and absorber mounting procedure defines accurate results. The given information is based on data and knowledge considered to be true and accurate and is offered for the user's consideration, investigation and verification but we don't warrant the results to be obtained.

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## PHYSICAL PROPERTIES (in mm)

PROPERTIES	Symbol	Unit	Value
Initial Permeability	$\mu_{_{iac}}$		5500 ± 20%
Relative Loss Factor	tanδ/μ <sub>iac</sub>	x 10 <sup>-6</sup>	15 (0.1 MHz)
Saturation Flux Density	Bs	mT	280 (1194 A/m)
Remanence	Br	mT	180
Coercivity	Hc	A/m	3
Relative Temperature Factor (20°C-60°C)	$\alpha_{\mu r}$	x 10⁻6/°C	3
Curie Temperature	Тс	°C	>90
Density	δ	Kg/m <sup>3</sup>	3 4.85 x 10 <sup>3</sup>
Resistivity	ρ	Ωm	>100

#### **PICTURES**

**CHENNAILAB** 

C-LABB-FT-6.7 SERIES TILES

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