

FAM5

Flexible Absorbant Material

Version 2.240919



Flexible Absorbant Material

FAM5 is a flexible EMI absorber which also has excellent thermal conductivity. This product can be used to suppress EMI issues over a wide range of frequencies whilst simultaneously transferring heat away from a hot spot. FAM5 can be supplied in a number of different formats ranging from standard sheets to custom die cuts for ease of manufacture.

Features

- Provide effective EMI suppression over a wide frequency range (10MHz to 18GHz)
- Ultra-thin and extremely flexible, can be easily fitted to a wide range of form-factors
- UL approved non-conductive adhesive backing available as an option
- Highly effective in preventing resonance and suppressing coupling
- High surface resistance (10^6 ohms)
- Manufacturing friendly solution
- Can be cut to any shape

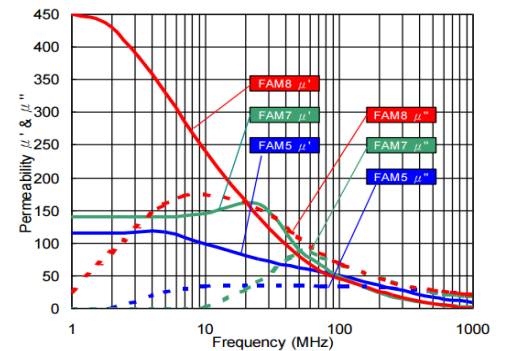
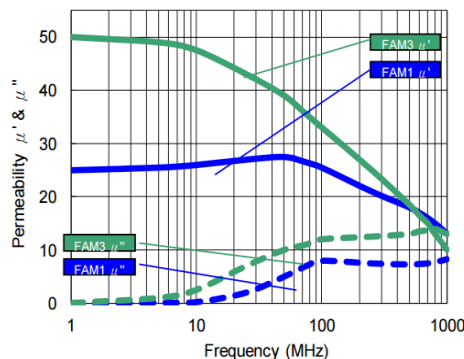
Applications

- Notebooks, PCs, workstations LNBS for satellite systems
- Mobile communications equipment
- Base stations for mobile phones and handsets
- Peripheral devices for computers
- Wireless equipment
- Mobile phones
- High speed clocks and timing devices
- RFID (Radio Frequency Identification) systems
- NFC (Near field communication) systems
- Wireless chargers

Properties

- ✓ REACH Compliant
- ✓ ROHS Compliant

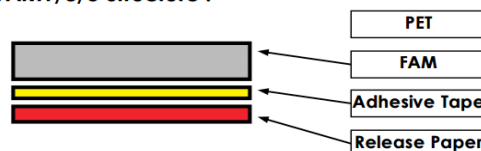
Property	FAM5	Unit	Tolerance	Test Method
Operating Temperature	-40 to 85	°C		-
Applicable Frequency	0.001 to 18.0	GHz		-
Thickness Range	0.05-0.50	mm		-
Max. Dimension	210 X 197	mm		-
Surface Resistance	10^6	ohm		ASTM D257
Density	2.7	g/cm ³		ASTM D792
RoHS Compliance 2002/95/EC	Yes	-		-
Halogen-Free	No	-		-



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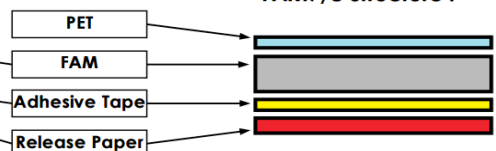
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FAM1/3/5 Structure :



* Allow none/one/two sides adhesive tape.

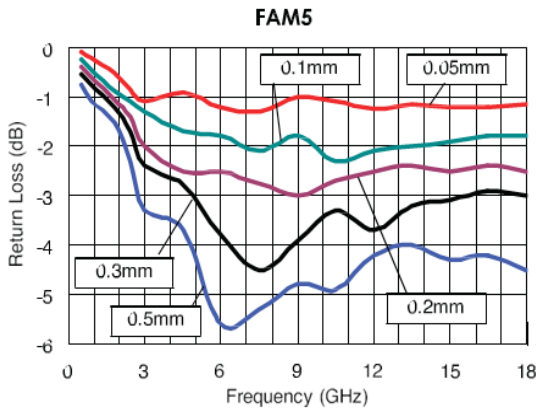
FAM7/8 Structure :



* Allow one side PET and one side adhesive tape or two sides adhesive tape



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Standard Weights & Dimensional Tolerance

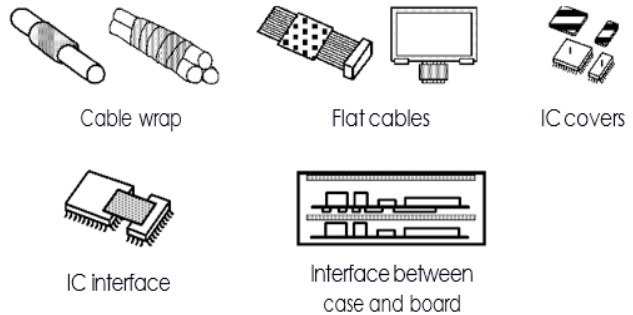
Size	Thickness (mm)	Weight (gr)				
	0.05	0.10	0.20	0.30	0.50	
100x100	0.05	1.35	2.70	5.40	8.10	13.50
	0.10	5.40	10.80	21.60	32.40	54.00
	0.20	21.60	43.20	86.40	129.60	216.00

* All measurements in weights are in gr

** All sizes are in mm

Die-Cut Thickness Tolerances	Thickness (mm)	Tolerance (mm)
	0.3	±0.03
	0.5	±0.05
	0.8	±0.08
	1.0	±0.1
	1.2	±0.12
	1.5	±0.15
	2.0	±0.2
	2.5 - 3.5	±0.25
	4.0 - 4.5	±0.3
	5.0	±0.35
	6.0 - 8.0	±0.4
	9.0	±0.45
10.0	±0.5	
>10.0	±0.5	

Sheet Shape Examples



* Data for design engineer guidance only. Observed performance varies in application. Engineers are reminded to test the material in application.

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