

# FAM1

## Flexible Absorbant Material

Version 2.240919



### Flexible Absorbant Material

FAM1 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. FAM1 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

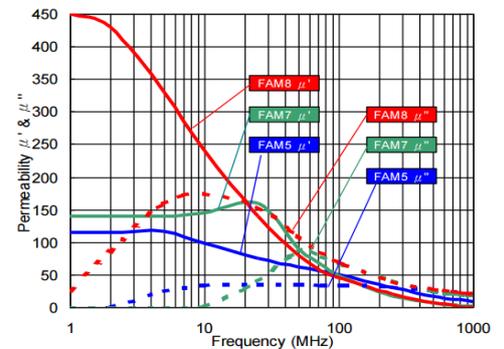
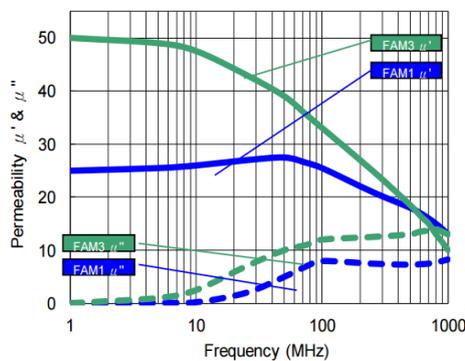
### Applications

- 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

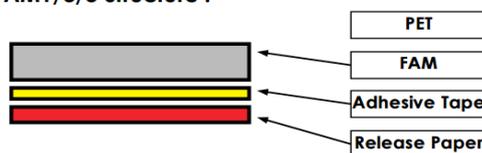
Property	FAM1	Unit	Test Method
Operating Temperature	-40 to 85	°C	-
Applicable Frequency	0.001 to 18.0	GHz	-
Thickness Range	0.12 to 2.50	mm	-
Max. Dimension	400 x 400	mm	-
Surface Resistance	$10^6$	ohm	ASTM D257
Density	3.6	g/cm <sup>3</sup>	ASTM D792
RoHS Compliance 2002/95/EC	Yes	-	-
Halogen-Free	No	-	-



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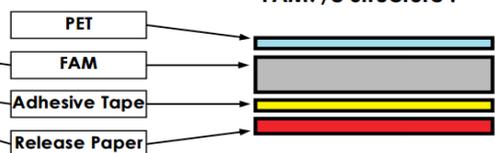
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VAT #: GB 116 662 714

FAM1/3/5 Structure :



\* Allow none/one/two sides adhesive tape.

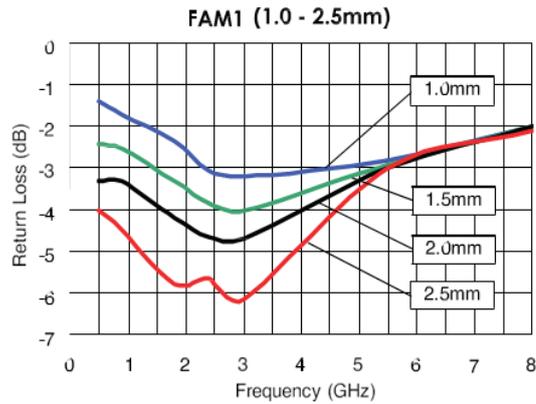
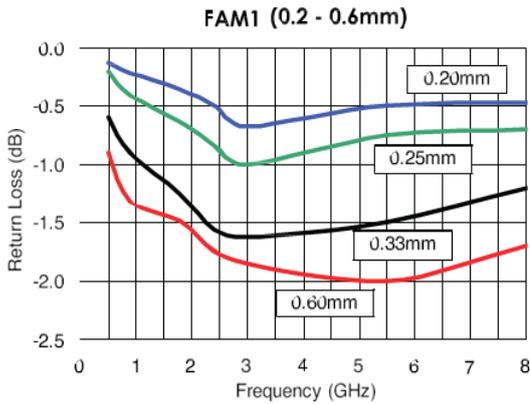
FAM7/8 Structure :



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

# FAM1

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### Standard Weights & Dimensional Tolerance

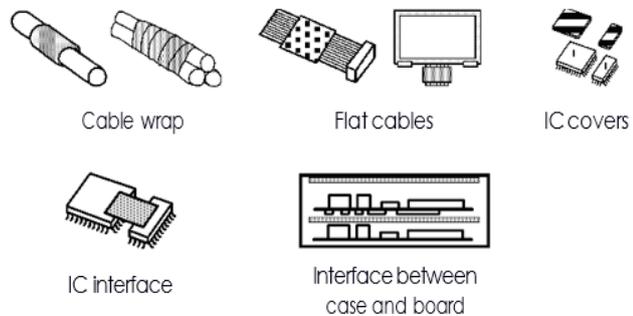
Size	Thickness (mm)	Weight (gr)									
	0.12	0.20	0.25	0.33	0.50	0.75	1.00	1.50	2.00	2.50	
100x100	4.80	8.00	10.00	13.20	20.00	t0.6= 30	40.00	60.00	80.00	100.00	
	19.20	32.00	40.00	52.80	80.00	t0.6=120	160.00	240.00	320.00	400.00	
	76.80	128.00	160.00	211.20	320.00	t0.6= 480	640.00	960.00	1280.00	1600.00	

\* 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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