

# TG-FAM

## Flexible Absorbing Material

RoHS Compliant

### Features

- Effective EMI suppression in a wide frequency range
- Ultra thin and extremely flexible, easy application in various spatial configurations
- Non-conductive adhesive backing (UL) available
- Effective in preventing resonance and suppressing coupling
- High surface resistance
- Easy and fast to process
- Can easily be cut into any shape

### Applications

**Electronic components** - Notebooks, PCs, workstations, LNBs for satellite systems, Mobile communications equipment, Base Stations for mobile phones, PHS, Peripheral devices for computers, Wireless equipment, Mobile Phones, High speed clocks, RFID, NFC, Wireless Charger, etc.

In addition to EMI-related applications, FAM can handle the issue when RFID tags attached to metal (by recovering up to 80% of the original reading distance). It is suitable for LF(125KHz) and HF(13.56MHz) bands. This allows for the space to be saved between RFID and metal. By this way can save the space from RFID to metal.

### Properties

Physical Properties	TG-FAM1	TG-FAM3	TG-FAM6	TG-FAM7	Unit
Frequency	0.001~18.0		0.001~9.0	0.001~3.0	GHz
Thickness	0.12~2.50	0.25/0.50/0.75	0.05/0.1/0.2/0.3/0.5	0.08/0.12/0.22	mm
Maximum Size	400×400		210×297 (A4 size)	130×130	mm
Material	Magnetic Particles+Rubber			Sintering iron-core	-
Magnetic Inductivity ( $\mu'$ @1MHz)	25	50	170	140	-
Halogen	Halogen contained		Halogen free		-
Working Temperature	-40~+85		-40~+155	-30~+120	°C
Density	3.6	4.8	4.4	3.8	g/cm <sup>3</sup>
Surface Resistance	10 <sup>6</sup>	10 <sup>6</sup>	10 <sup>5</sup>	10 <sup>9</sup>	Ohm
Structure	<div style="border: 1px solid black; padding: 5px; text-align: center;">                     FAM                      2-sided adhesive tape                      Release paper                 </div> <p>It can have no / one sided / two-sided adhesive tape</p>			<div style="border: 1px solid black; padding: 5px; text-align: center;">                     PET Tape                      FAM                      2-sided adhesive tape                      Release paper                 </div> <p>It can have one sided PET / one sided adhesive tape or two-sided adhesive tape</p>	-

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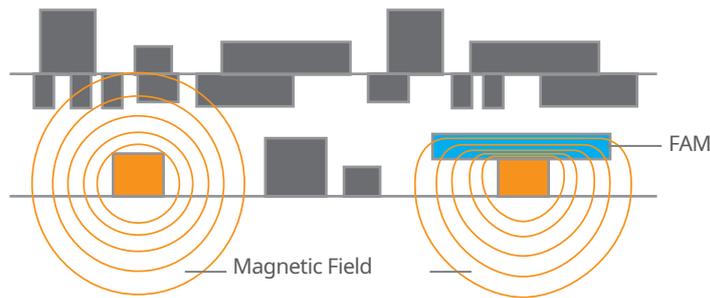
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### Magnetic Shielding

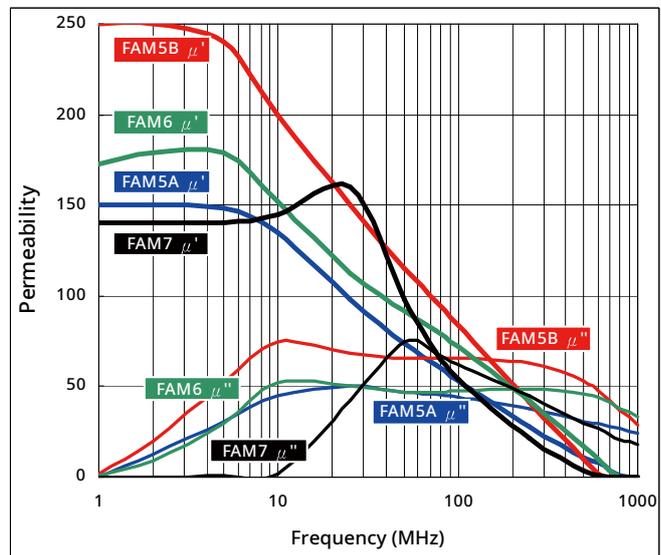
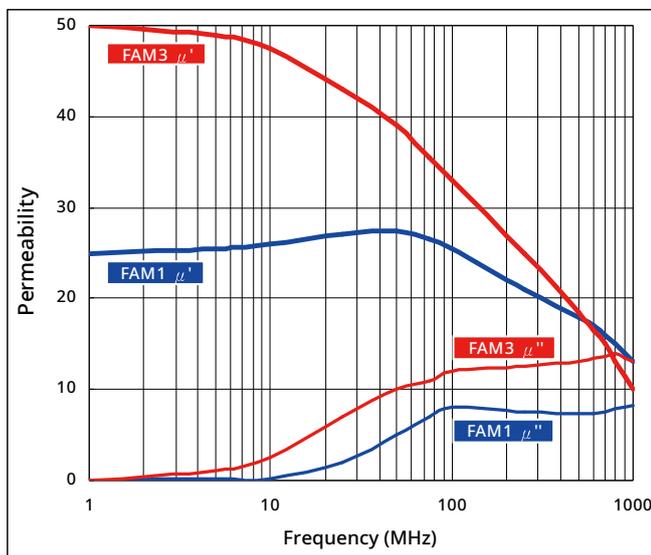


FAM can change the magnetic flux path to avoid the magnetic flux affect others components.

### Application for RFID NFC on metal



### Magnetic Inductivity ( $\mu = \mu' - j \mu''$ )



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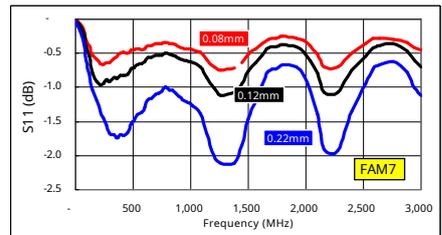
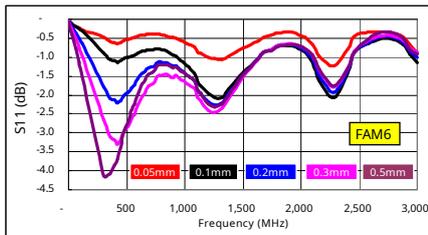
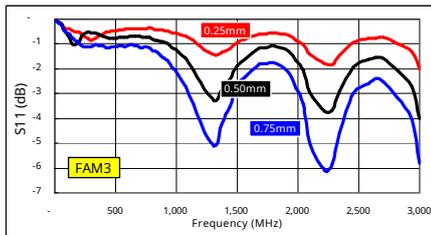
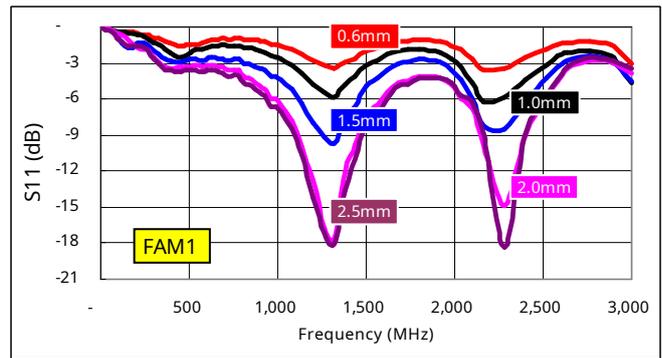
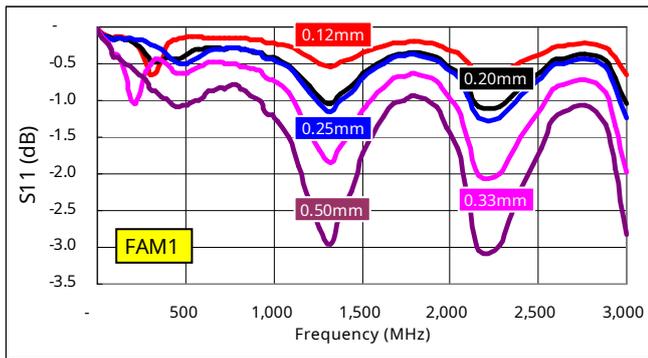
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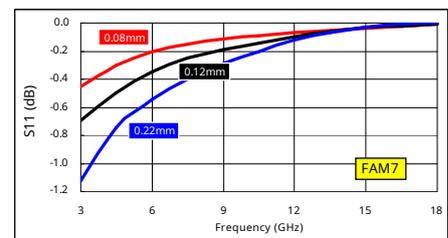
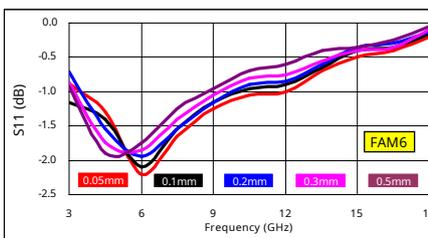
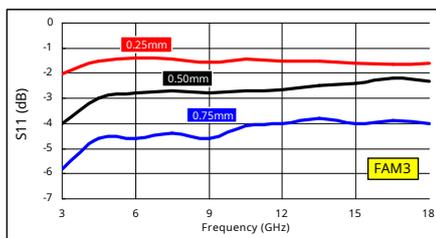
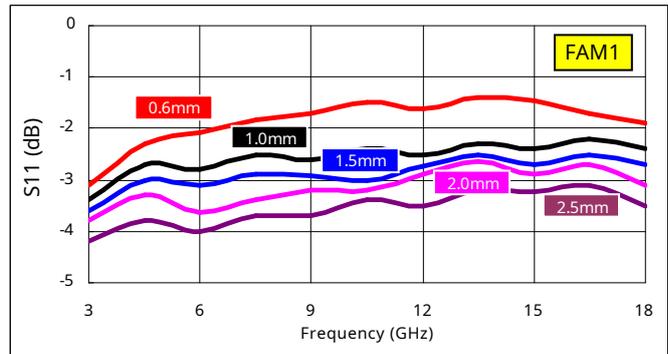
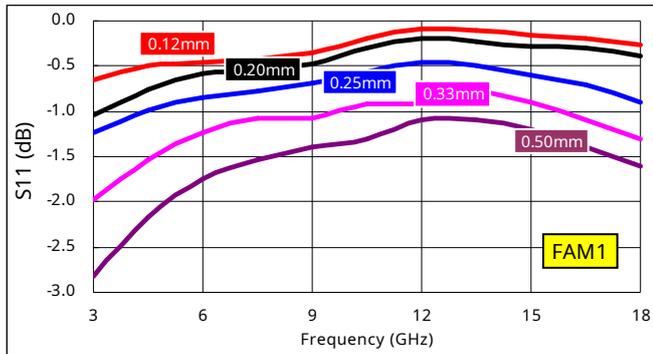
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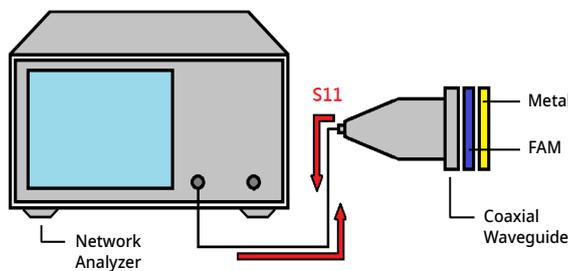
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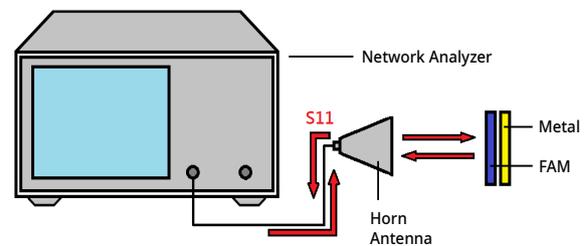
### Return Loss (3GHz~18GHz)



### (1MHz~3GHz) Testing Method



### (3GHz~18GHz) Testing Method



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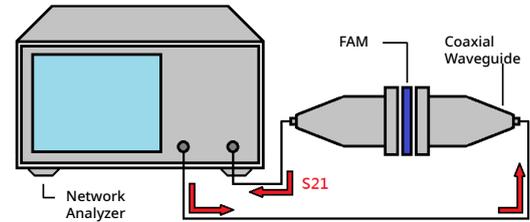
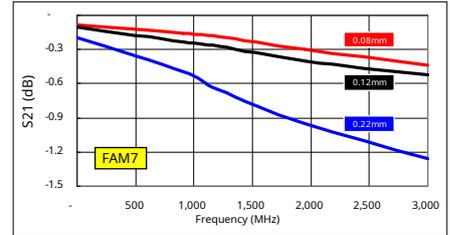
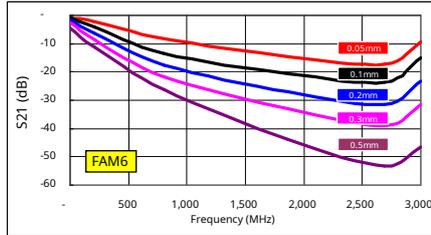
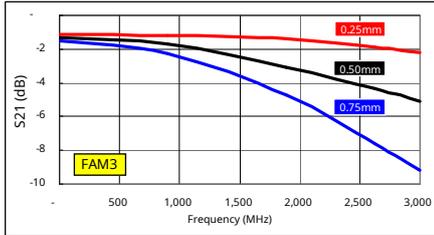
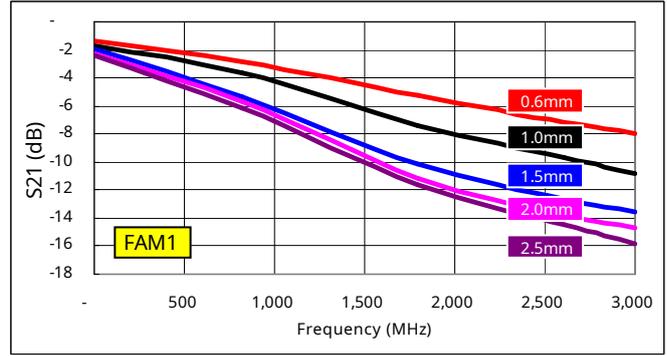
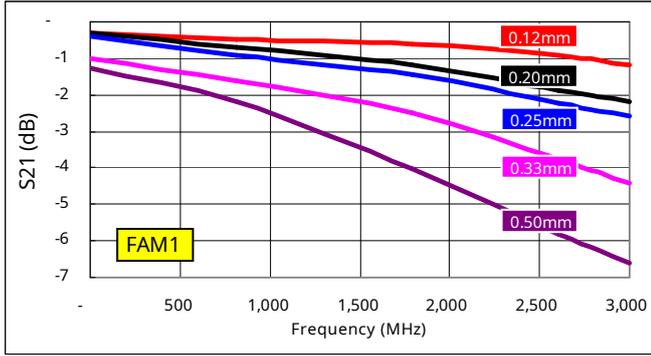
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### Insertion Loss



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