

# TG-FAM

## Flexible Absorbing Material

RoHS Compliant

### Features

- Effective EMI suppression in a wide frequency range
- Ultra thin, extremely flexible and easy to use
- Compatible with UL certified doubled-sided insulating tapes
- Antiresonance and de-coupling
- High surface impedance
- Easy to be cut into any shape

### Application:

Electronic components - 5G, Aerospace, AI, AIoT, AR/VR/MR/XR, Automotive, Consumer Devices, Datacom, Electric Vehicle, Electronic Products, Energy Storage, Industrial, Lighting Equipment, Medical, Military, Netcom, Panel, Power Electronics, Robot, Servers, Smart Home, Telecom, etc.

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

### Properties

Physical Properties	Unit	TG-FAM1	TG-FAM3	TG-FAM6	TG-FAM7	
Frequency	GHz	0.001~18.0		0.001~9.0	0.001~3.0	
Thickness	mm	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	
Maximum Size	mm	400×400		210×297 (A4 Size)	130×130	
Material	-	Magnetic Particles + Rubber			Sintering Iron-Core	
Magnetic Inductivity ( $\mu'$ @1MHz)	-	25	50	170	140	
Halogen	-	Halogen Contained		Halogen Free		
Operating Temperature	°C	-40~+85		-40~+155	-30~+120	
Density	g/cm <sup>3</sup>	3.6	4.8	4.4	3.8	
Surface Resistance	Ohm	10 <sup>6</sup>	10 <sup>6</sup>	10 <sup>5</sup>	10 <sup>9</sup>	
Structure	-	<div style="text-align: center;"> <p>Adhesive Tape Options (No/Single-Side/Dual-Side)</p> </div>			<div style="text-align: center;"> <p>Optional Dual-Side Adhesive Tapes</p> </div>	

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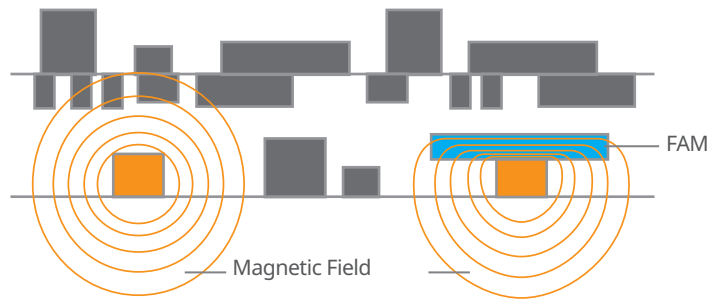
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### Magnetic Shielding

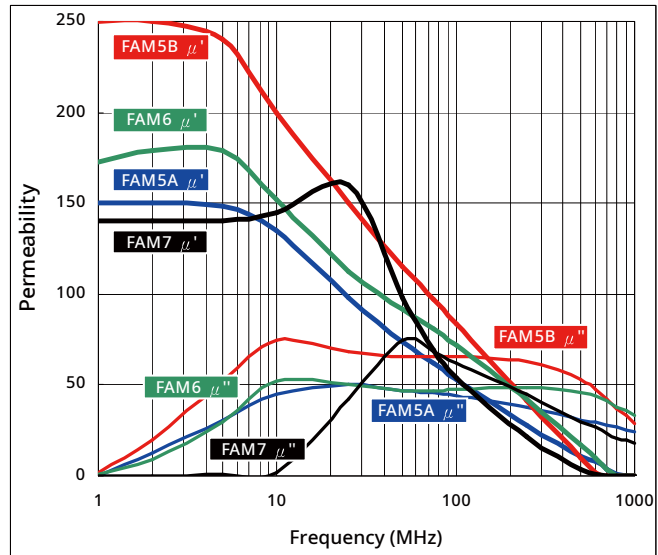
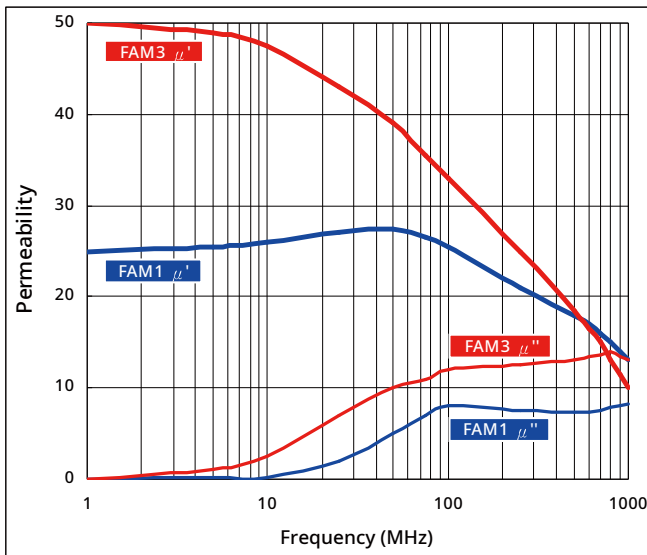


FAM can change the magnetic flux path to avoid the magnetic flux affect others components.

### Application for RFID NFC on metal

 	 	 
RFID tag only (100% original distance)	RFID tag + metal (5% max original distance)	RFID tag + FAM + metal (80% max original distance)

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



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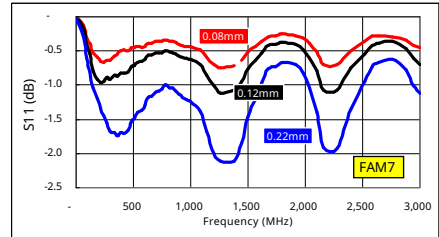
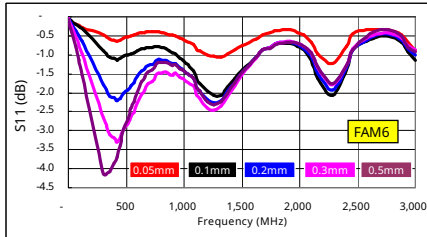
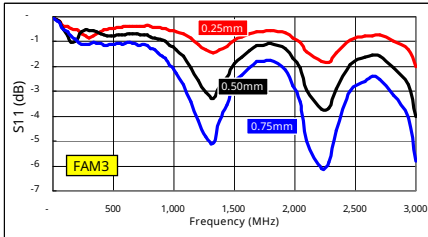
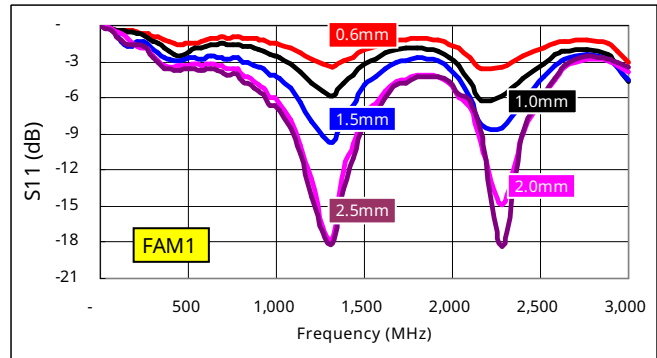
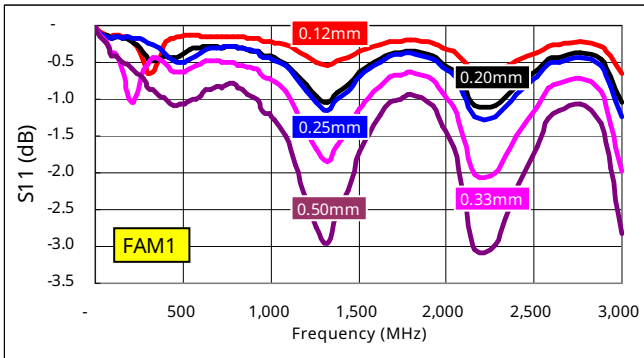
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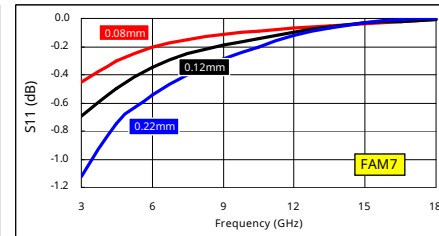
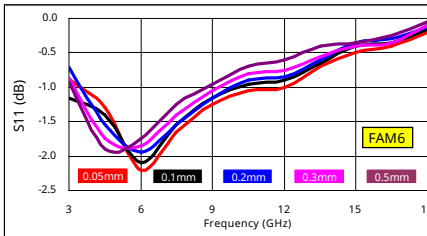
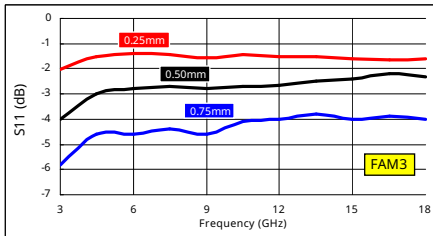
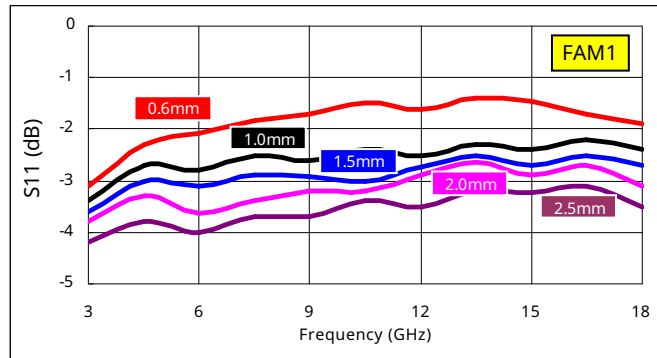
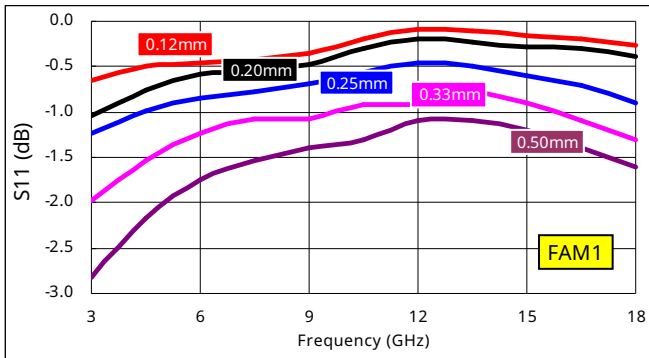


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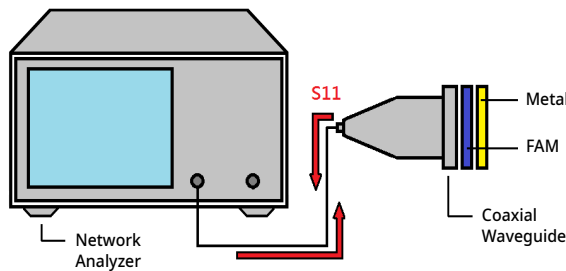
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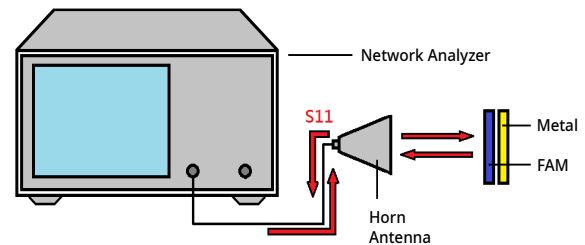
### Return Loss (3GHz~18GHz)



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



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



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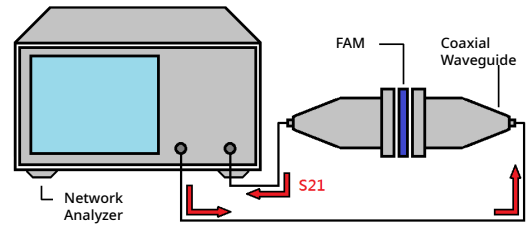
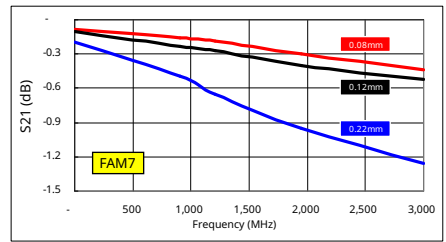
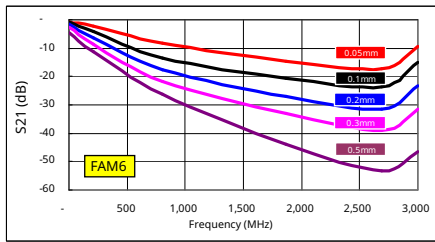
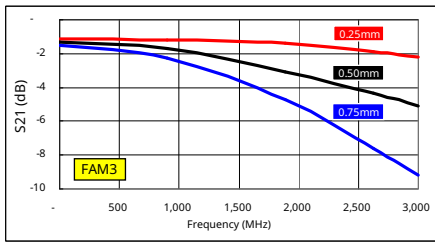
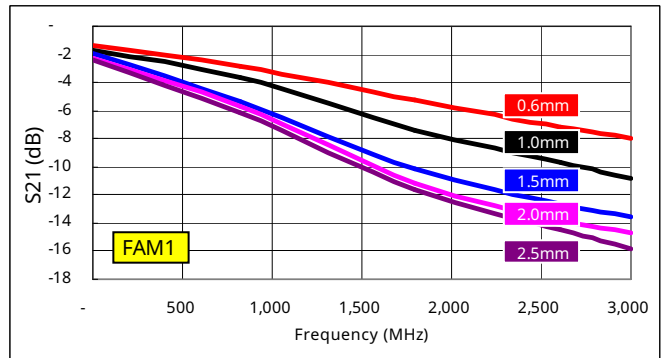
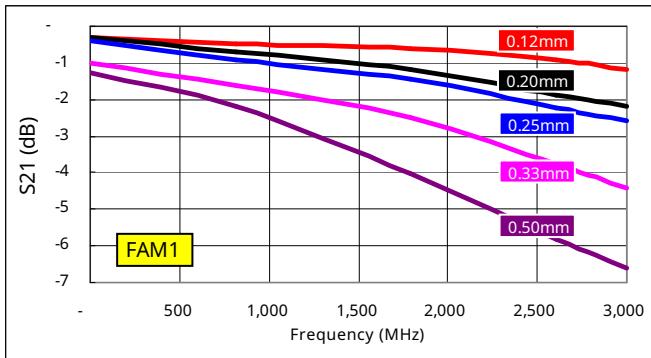
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Insertion Loss



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