

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

Applications

Electronic Components - 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 (μ' @1MHz)	-	25	50	170	140
Halogen	-	Halogen Contained		Halogen Free	
Operating Temperature	°C	-40~+85		-40~+155	-30~+120
Density	g/cm ³	3.6	4.8	4.4	3.8
Surface Resistance	Ohm	10 ⁶	10 ⁶	10 ⁵	10 ⁹
Structure	-	<div style="text-align: center;"> <div>FAM</div> <div>2-Sided Adhesive Tape</div> <div>Release Paper</div> </div> <p>Adhesive Tape Options (No/Sigle-Side/Dual-Side)</p>			<div style="text-align: center;"> <div>PET Tape</div> <div>FAM</div> <div>2-Sided Adhesive Tape</div> <div>Release Paper</div> </div> <p>Optional Dual-Side Adhesive Tapes</p>

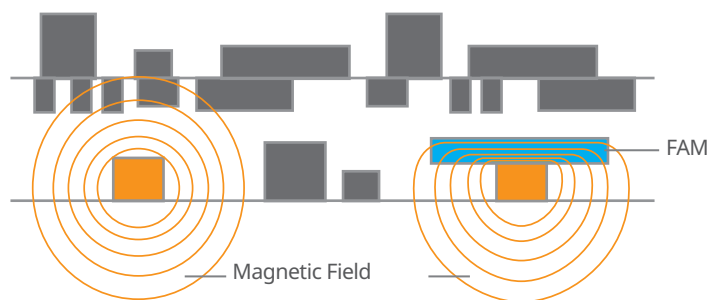
T-Global Techonology Co., Ltd.

No.33, Ln.50, Daren Rd., Taoyuan Dist., Taoyuan City 330058, Taiwan

T +886-3-361-8899 **E** service@tglobalcop.com **W** www.tglobalcop.com
Version20
20250124

NOTICE: The information contained herein is to the best of our knowledge true and accurate. Values stated in this technical data sheet represent typical values as not all tests are run on each lot of material produced. All specifications are subject to change without notice. The protective film and release paper do not affect the function of the product. If there is no special requirement, the default depends on T-Global. Since the varied conditions of potential use are beyond our control, all recommendations or suggestions are presented with out guarantee or responsibility on our part and users should make their own test to determine the suitability of our products in any specific situation. This product is sold without warranty either expressed or implied, of fitness for a particular purpose or otherwise, except that this product shall be of standard quality, and except to the extent otherwise stated in T-Global Technology's invoice, quotation, or order acknowledgment. We disclaim any and all liabilities incurred in connection with the use of information contained herein, or otherwise. All risks of such are assumed by the user. Furthermore, nothing contained herein shall be construed as a recommendation to use any process or to manufacture or to use any product in conflict with existing or future patents covering any product or material or its use.

Magnetic Shielding

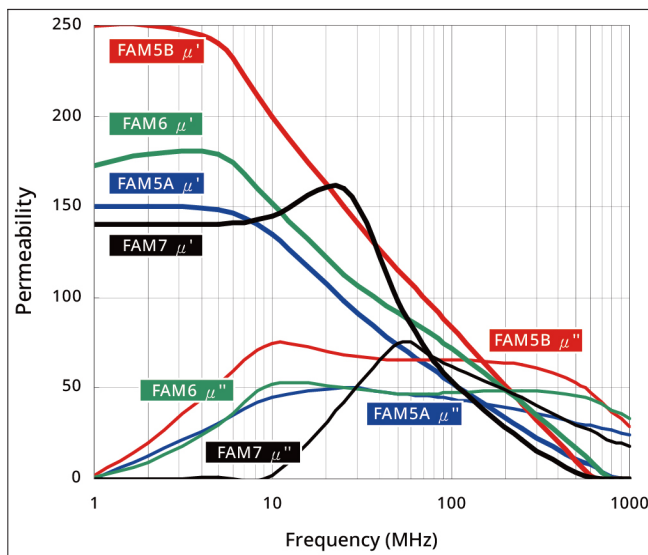
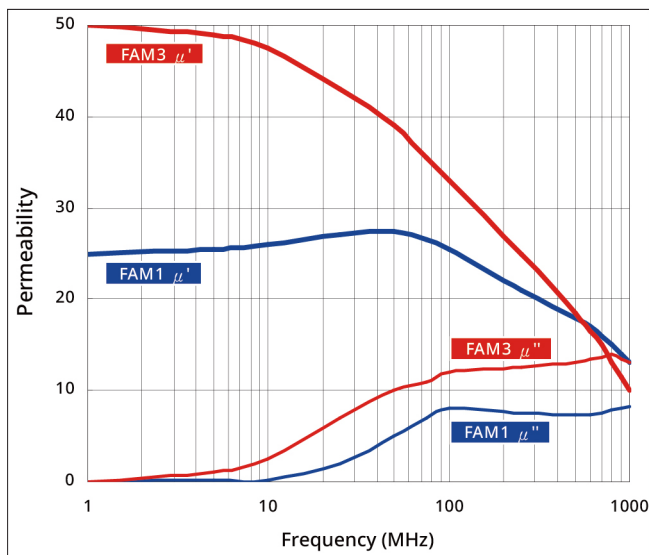


FAM can change the magnetic flux path to avoid the magnetic flux affect others components.

Application for RFID NFC on metal



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



T-Global Technonology Co., Ltd.

No.33, Ln.50, Daren Rd., Taoyuan Dist., Taoyuan City 330058, Taiwan

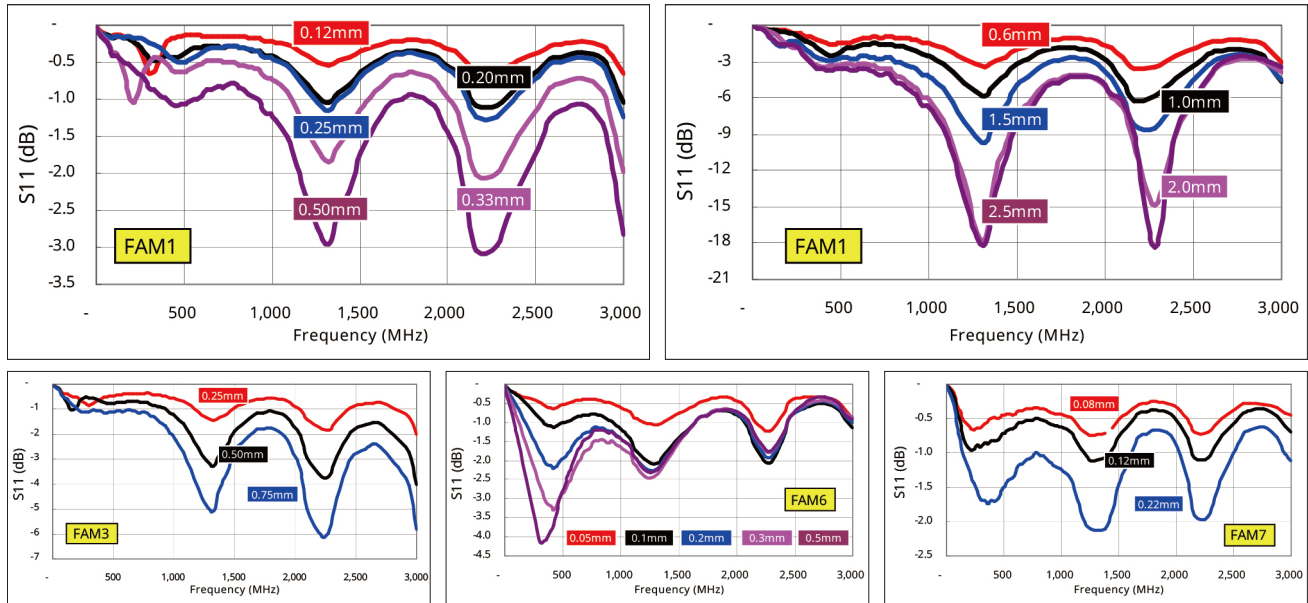
T +886-3-361-8899 E service@tglobalcorp.com W www.tglobalcorp.com

Version20
20250124

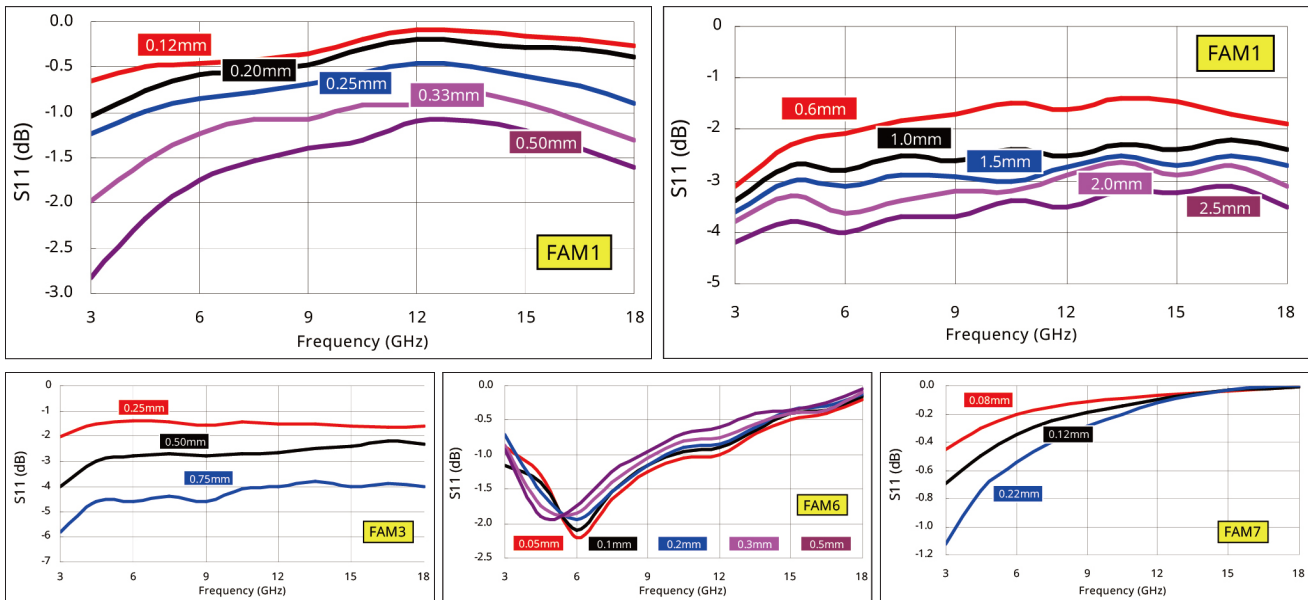


NOTICE: The information contained herein is to the best of our knowledge true and accurate. Values stated in this technical data sheet represent typical values as not all tests are run on each lot of material produced. All specifications are subject to change without notice. The protective film and release paper do not affect the function of the product. If there is no special requirement, the default depends on T-Global. Since the varied conditions of potential use are beyond our control, all recommendations or suggestions are presented with out guarantee or responsibility on our part and users should make their own test to determine the suitability of our products in any specific situation. This product is sold without warranty either expressed or implied, of fitness for a particular purpose or otherwise, except that this product shall be of standard quality, and except to the extent otherwise stated in T-Global Technology's invoice, quotation, or order acknowledgment. We disclaim any and all liabilities incurred in connection with the use of information contained herein, or otherwise. All risks of such are assumed by the user. Furthermore, nothing contained herein shall be construed as a recommendation to use any process or to manufacture or to use any product in conflict with existing or future patents covering any product or material or its use.

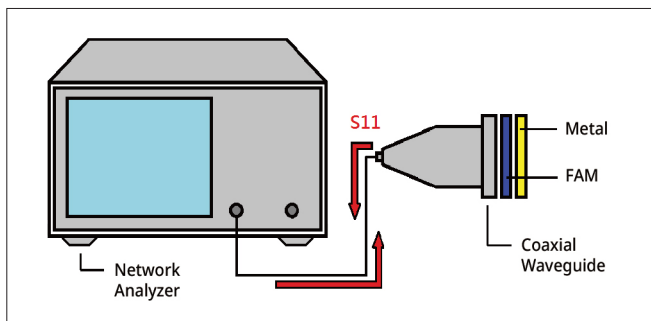
Return Loss (1MHz~3GHz)



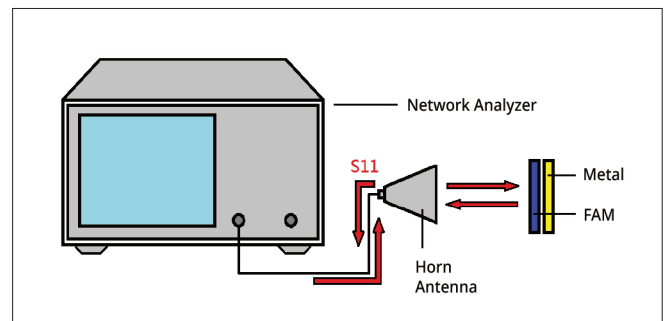
Return Loss (3GHz~18GHz)



(1MHz~3GHz) Testing Method



(3GHz~18GHz) Testing Method



T-Global Technonology Co., Ltd.

No.33, Ln.50, Daren Rd., Taoyuan Dist., Taoyuan City 330058, Taiwan

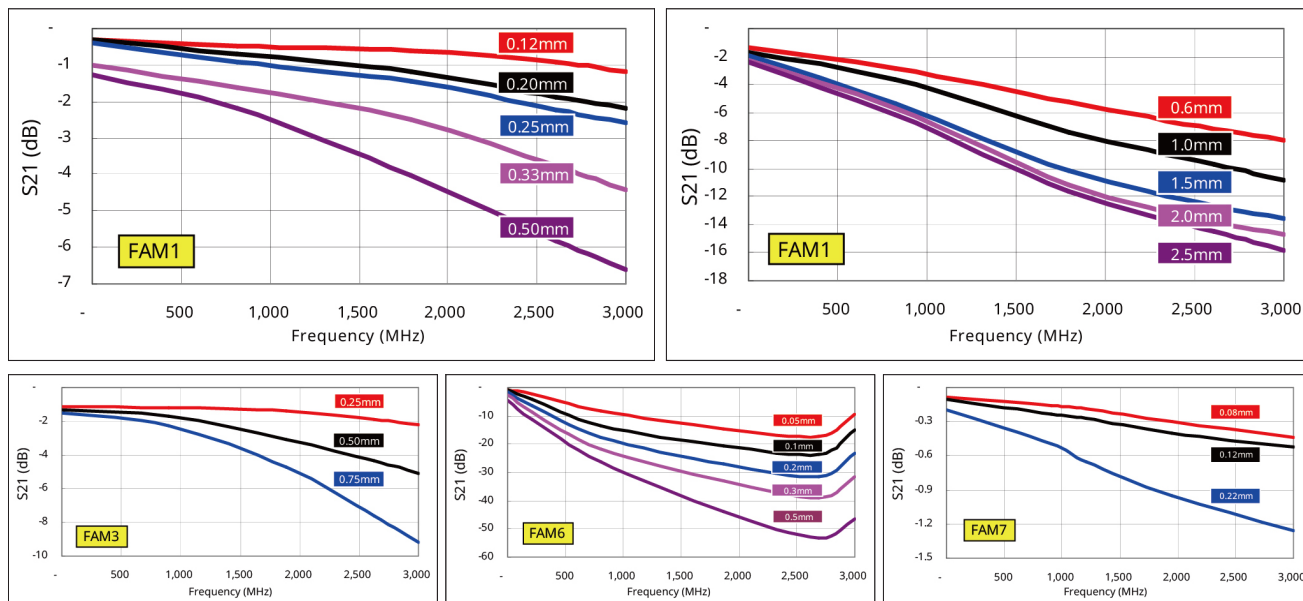
T +886-3-361-8899 E service@tglobalcorp.com W www.tglobalcorp.com

Version20
20250124

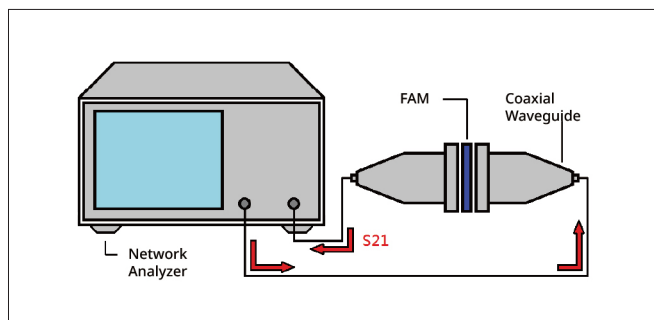


NOTICE: The information contained herein is to the best of our knowledge true and accurate. Values stated in this technical data sheet represent typical values as not all tests are run on each lot of material produced. All specifications are subject to change without notice. The protective film and release paper do not affect the function of the product. If there is no special requirement, the default depends on T-Global. Since the varied conditions of potential use are beyond our control, all recommendations or suggestions are presented with out guarantee or responsibility on our part and users should make their own test to determine the suitability of our products in any specific situation. This product is sold without warranty either expressed or implied, of fitness for a particular purpose or otherwise, except that this product shall be of standard quality, and except to the extent otherwise stated in T-Global Technology's invoice, quotation, or order acknowledgment. We disclaim any and all liabilities incurred in connection with the use of information contained herein, or otherwise. All risks of such are assumed by the user. Furthermore, nothing contained herein shall be construed as a recommendation to use any process or to manufacture or to use any product in conflict with existing or future patents covering any product or material or its use.

Insertion Loss



Testing Method



T-Global Technonology Co., Ltd.

No.33, Ln.50, Daren Rd., Taoyuan Dist., Taoyuan City 330058, Taiwan

T +886-3-361-8899 E service@tglobalcorp.com W www.tglobalcorp.com

Version20
20250124



NOTICE: The information contained herein is to the best of our knowledge true and accurate. Values stated in this technical data sheet represent typical values as not all tests are run on each lot of material produced. All specifications are subject to change without notice. The protective film and release paper do not affect the function of the product. If there is no special requirement, the default depends on T-Global. Since the varied conditions of potential use are beyond our control, all recommendations or suggestions are presented with out guarantee or responsibility on our part and users should make their own test to determine the suitability of our products in any specific situation. This product is sold without warranty either expressed or implied, of fitness for a particular purpose or otherwise, except that this product shall be of standard quality, and except to the extent otherwise stated in T-Global Technology's invoice, quotation, or order acknowledgment. We disclaim any and all liabilities incurred in connection with the use of information contained herein, or otherwise. All risks of such are assumed by the user. Furthermore, nothing contained herein shall be construed as a recommendation to use any process or to manufacture or to use any product in conflict with existing or future patents covering any product or material or its use.