

FAM

Flexible Absorbent Material

Features

Provide effective EMI suppression in a wide frequency range (10MHz to 18GHz)

Ultra thin and extremely flexible, can be freely arranged in space

Non-conductive adhesive backing (UL Recognized) available

Effective in preventing resonance and suppressing coupling

High surface resistance (106-109 ohms)

Easy and fast to process

Can be cut any shape easily



Applications

Notebooks, PCs, workstations

Mobile communications equipment

Base stations for mobile phones and PHS

Peripheral devices for computers

Wireless equipment

LNBS for satellite systems

Mobile phones, PHS

High speed clocks

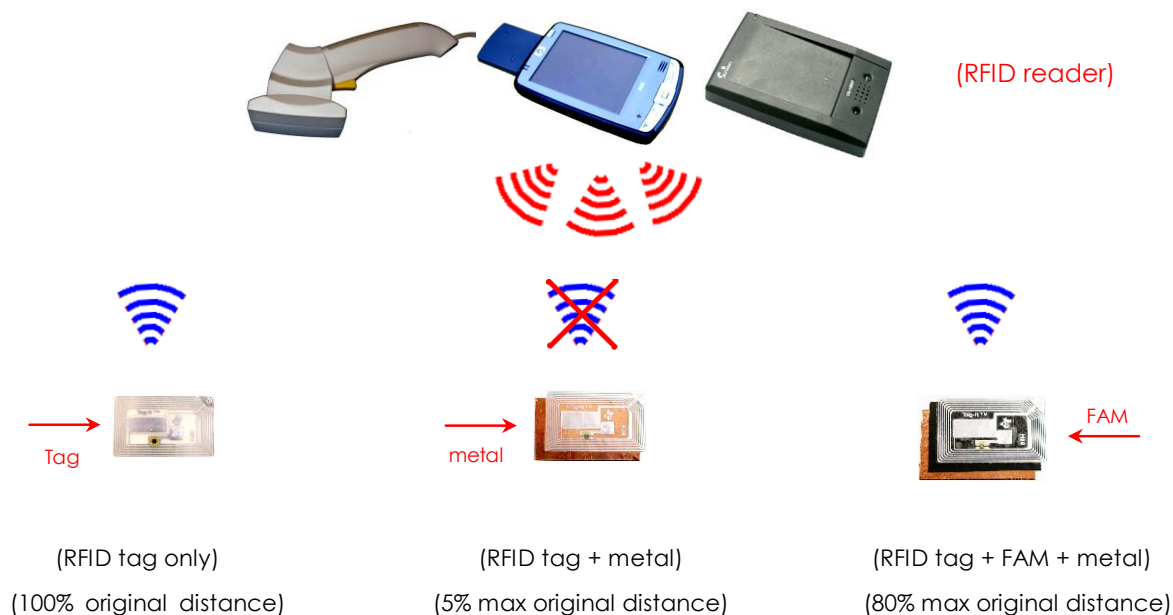
RFID (Radio Frequency Identification) systems

NFC (Near field communication)

Wireless Charger

Applications for RFID

Besides the application of EMI, FAM can be a solution for RFID on metal also. It suitable for LF(125KHz) and HF(13.56MHz) bands. It can deal with the malfunction problems when RFID Reader/Writer or RFID tag attached on metal (recover maximum 80% efficiency of the original distance). By this way can save more space from RFID to metal.



T-Global Technology Co., Ltd

No. 33, Ln. 50, Daren Rd., Taoyuan Dist, Taoyuan City 33068, Taiwan

TEL: +886-3-3618899

FAX: +886-3-3665666

www.tglobalthermal.com

www.tglobal.com.tw

Thermal Interface Materials: Thermal Pad, Thermal Tape, Thermal Grease, Ceramic Heat Spreader



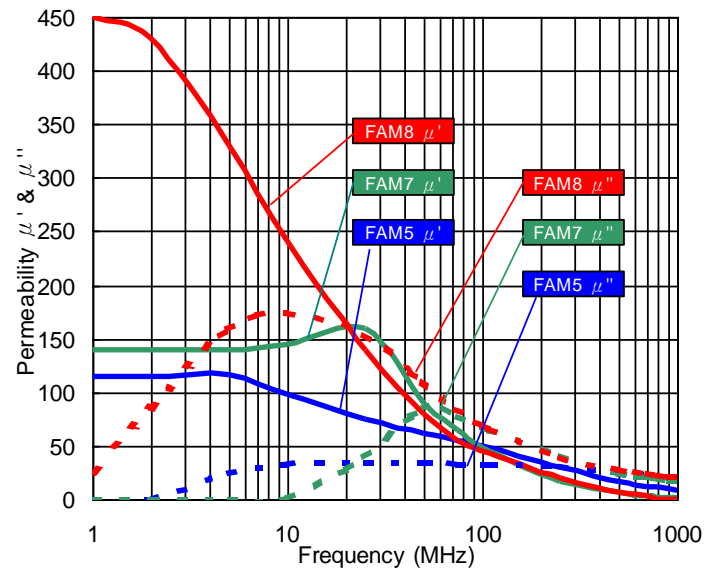
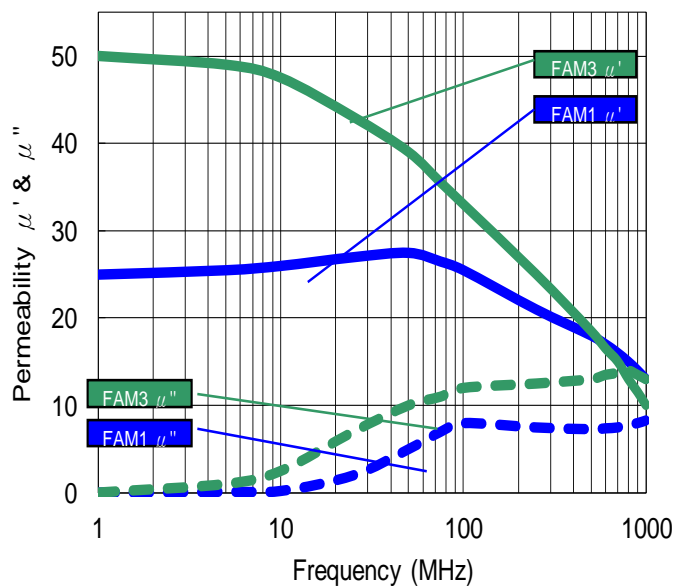
FAM

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Properties

Properties	Unit	FAM1	FAM3	FAM5
Working Temperature	°C	-40~+85	-40~+85	-40~+85
Frequency	G Hz	0.01-8.0	0.1-18.0	0.01-18.0
magnetic inductivity(μ' @1MHz)	-	25	50	115
Material	-	Magnetic Particles+Rubber	Magnetic Particles+Rubber	Magnetic Particles+Rubber
Thickness	mm	0.12-2.50	0.25/0.50/0.75	0.05-0.50
Maximum Size	mm	400 x 400	400 x 400	210 x 297(A4)
Surface Resistance	ohm	10^6	10^9	10^6
Density	g / cm ³	3.6	4.8	2.7
RoHS	-	2002/95/EC	2002/95/EC	2002/95/EC
Halogen	-	Halogen contained	Halogen contained	Halogen free

Properties	Unit	FAM7	FAM8
Working Temperature	°C	-30~+120	-30~+120
Frequency	G Hz	0.01-1.0	0.01-1.0
magnetic inductivity(μ' @1MHz)	-	140	450
Material	-	Sintering iron- core	Sintering iron-core
Thickness	mm	0.08/0.12	0.12/0.22
Maximum Size	mm	130 x 130	130 x 130
Surface Resistance	ohm	10^9	10^9
Density	g / cm ³	3.8	3.8
RoHS	-	2002/95/EC	2002/95/EC
Halogen	-	Halogen free	Halogen free



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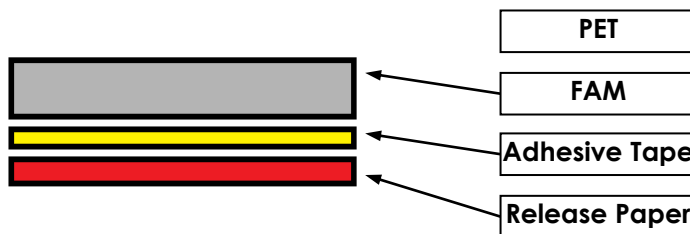
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Properties

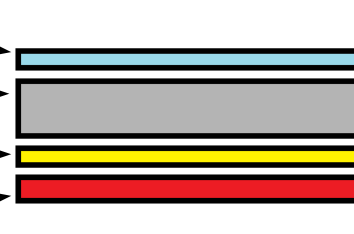
	FAM1	FAM3	FAM5	FAM7	FAM8
Working Temperature	-40~+85°C			-30~+120°C	
magnetic inductivity(μ' @1MHz)	25	50	115	140	450
Material	Magnetic Particles+Rubber			Sintering iron- core	
Minimum Thickness	0.12mm	0.25mm	0.05mm	0.08mm	0.12mm
Maximum Thickness	2.5mm	0.75mm	0.5mm	0.12mm	0.22mm
Maximum Size	400x400mm	400x400mm	210x297mm(A4)	130x130mm	130x130mm
Surface Resistance	10^6	10^9	10^6	10^9	10^9
RoHS	2002/95/EC				
Halogen	Contain Halogen		Halogen free		
Applications	RFID/NFC	EMI RFID/NFC	EMI RFID/NFC	EMI RFID/NFC	EMI

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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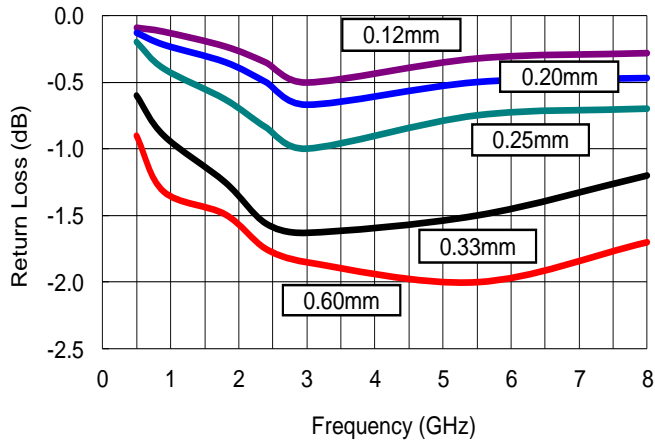


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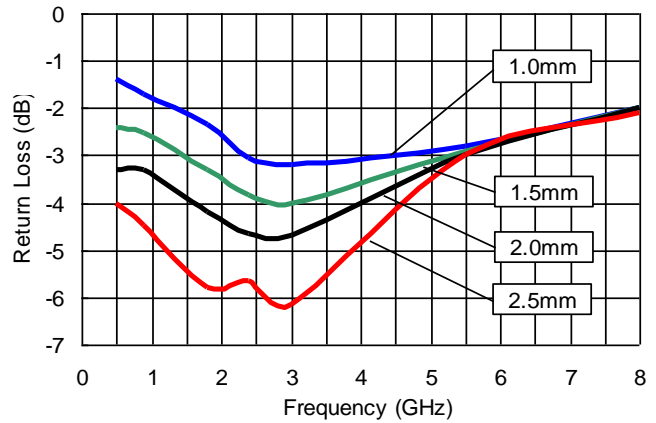
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Return Loss – Frequency :

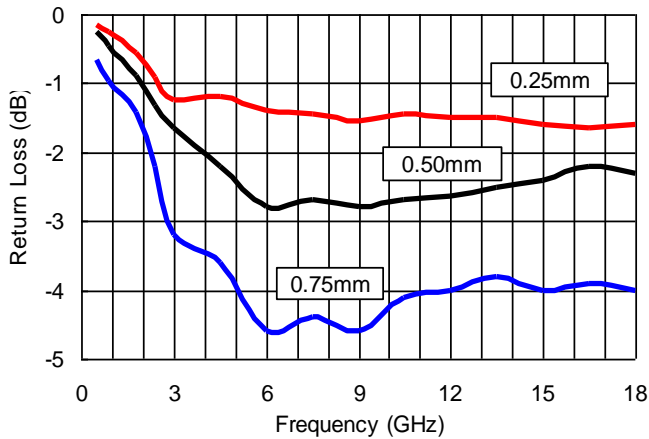
FAM1 (0.12 - 0.6mm)



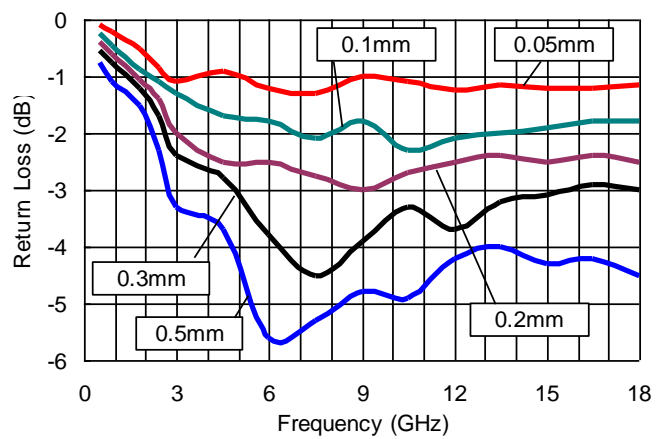
FAM1 (1.0 - 2.5mm)



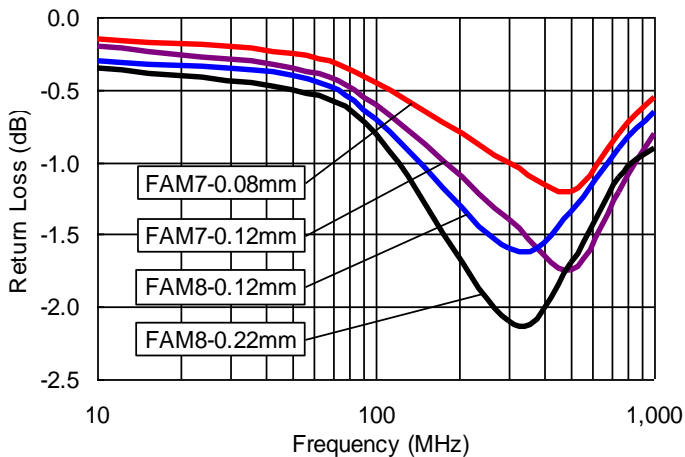
FAM3



FAM5



FAM7 & FAM8



Return Loss (dB)	0.5	1	2	3	4	5	6	7	8	9	10	20	30
Absorb Rate (%)	11	21	37	50	60	69	75	80	86	89	90	99	99.9

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