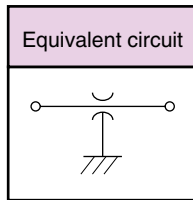
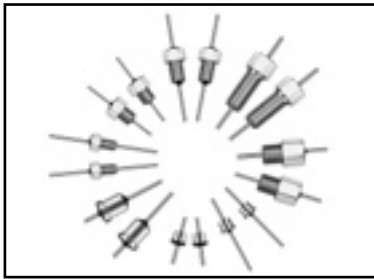


SCREW TYPE EMI FILTERS [FTA Series]



The FTA series are extremely small, highly reliable EMI filters for a wide range of frequency, and are suited for high frequency noise and EMI control.

For this series, a feed through type ceramic capacitor with an extremely high self-resonating frequency is soldered into a threaded metal shell, and sealed with resin.

Metric thread type

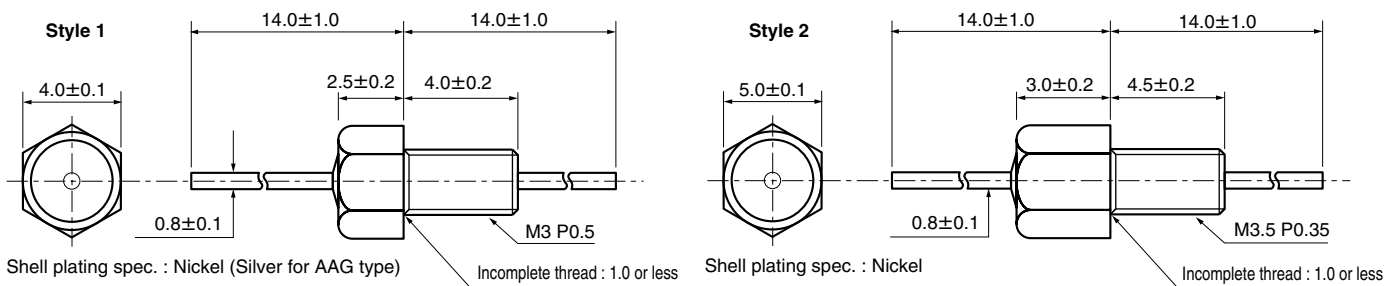
Part Number List • Specifications for M3 Thread Type

Part number	Capacitance	Capacitance tolerance	Rated voltage	Withstanding voltage	Rated current	Temperature characteristics	Temp. range	Insertion loss	Style		
FTA302AC060KAAG-S	6pF	±10%	100Vdc	250Vdc	10Adc	CG (0±30ppm/°C)	-55~+125°C	①	Style 1		
FTA302AR102S-S	1,000pF	+50%, -20%				250Vdc		750Vdc		R (+15~-15%)	②
FTA302AR472S-S	4,700pF									③	
FTA302AR103S-S	10,000pF									④	
FTA302EB100M-S	10pF	±20%	250Vdc	750Vdc		B (+10~-10%)	-25~+ 85°C	⑤			
FTA302EB220S-S	22pF	+50%, -20%				750Vdc		750Vdc		D (+20~-30%)	⑥
FTA302EB470S-S	47pF									⑦	
FTA302ED101S-S	100pF									⑧	
FTA302EE471S-S	470pF	+100%, -0%				750Vdc		750Vdc		E (+20~-55%)	⑨
FTA302EF102P-S	1,000pF									⑩	
FTA302EF202P-S	2,000pF									⑪	

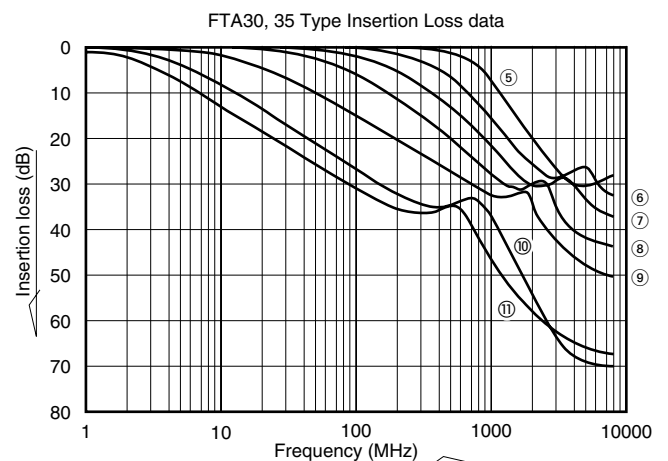
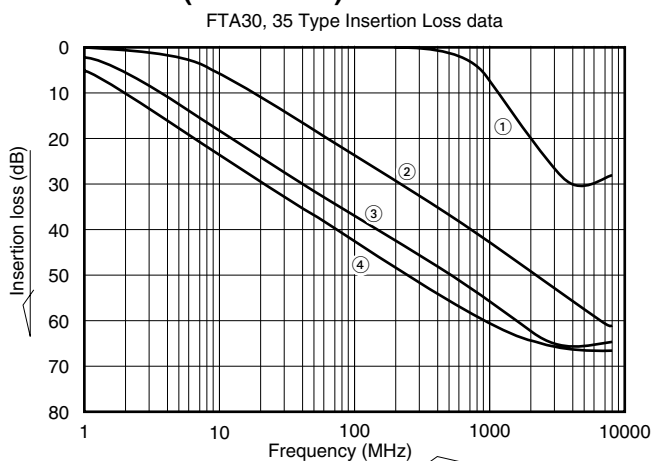
Part Number List • Specifications for M3.5 Thread Type

Part number	Capacitance	Capacitance tolerance	Rated voltage	Withstanding voltage	Rated current	Temperature characteristics	Temp. range	Insertion loss	Style				
FTA352AR102S-S	1,000pF	+50%, -20%	100Vdc	250Vdc	10Adc	R (+15~-15%)	-55~+125°C	②	Style 2				
FTA352AR472S-S	4,700pF					③							
FTA352AR103S-S	10,000pF					④							
FTA352EB100M-S	10pF	±20%	250Vdc	750Vdc		B (+10~-10%)	-25~+ 85°C	⑤					
FTA352ED101S-S	100pF	+50%, -20%				750Vdc		750Vdc		D (+20~-30%)	⑧		
FTA352EF102P-S	1,000pF	+100%, -0%								750Vdc	750Vdc	F (+30~-80%)	⑩
FTA352EF202P-S	2,000pF											⑪	

Dimensions (mm)



Insertion loss (Reference)

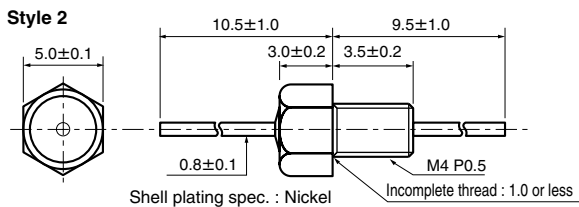
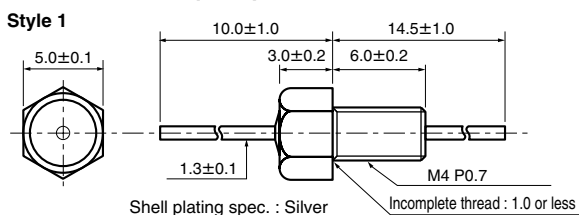


SCREW TYPE EMI FILTERS [FTA Series]

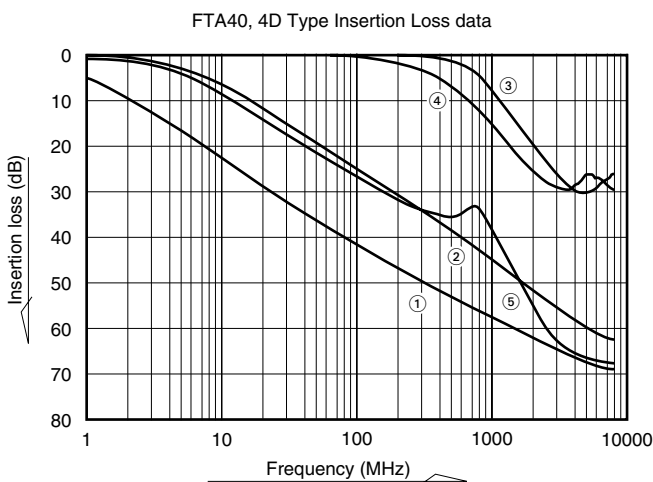
Part Number List • Specifications for M4 Thread Type

Part number	Capacitance	Capacitance tolerance	Rated voltage	Withstanding voltage	Rated current	Temperature characteristics	Temp. range	Insertion loss	Style
FTA402DF103Z-S	10,000pF	+80% -20%	200Vdc	600Vdc	20Adc	F (+30~-80%)	-25~+ 85°C	①	Style 1
FTA4D2AR102S-S	1,000pF	+50% -20%	100Vdc	250Vdc	10Adc	R (+15~-15%)	-55~+125°C	②	Style 2
FTA4D2EB100F-S	10pF	±1pF	250Vdc	750Vdc		B (+10~-10%)		③	
FTA4D2ESL220M-S	22pF	±20%				SL (+350~-1000ppm/°C)		④	
FTA4D2EF102P-S	1,000pF	+100% -0%				F (+30~-80%)		⑤	

Dimensions (mm)



Insertion loss (Reference)

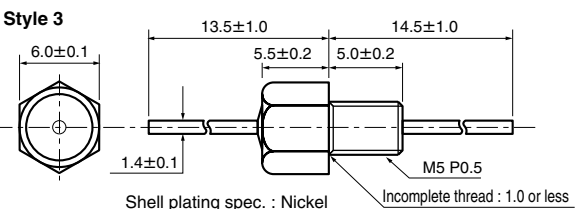
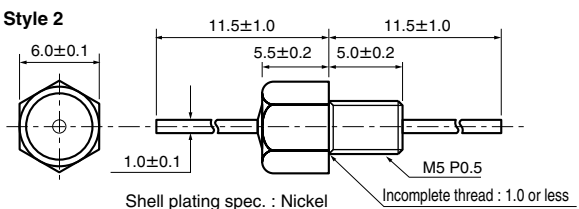
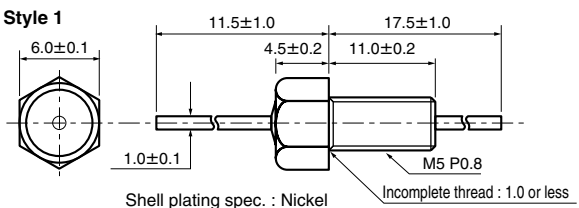


Part Number List • Specifications for M5 Thread Type

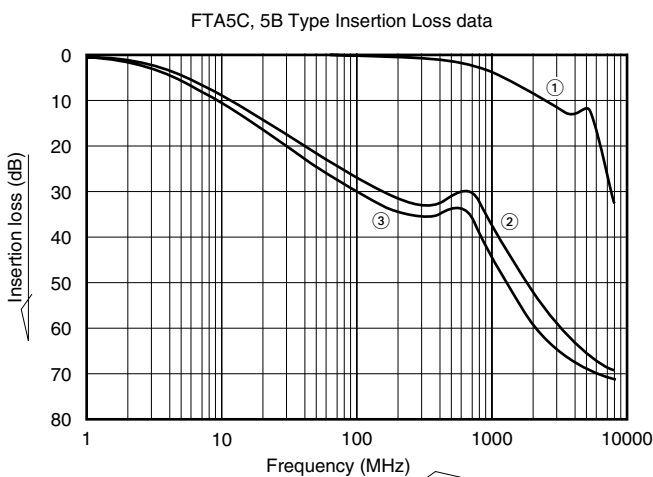
Part number	Capacitance	Capacitance tolerance	Rated voltage	Withstanding voltage	Rated current	Temperature characteristics	Temp. range	Insertion loss	Style
FTA5C2HD030F-S	3pF	±1pF	500Vdc	1000Vdc	15Adc	D (+20~-30%)	-25~+85°C	①	Style 1
FTA5C2HD102P-S	1,000pF	+100% - 0%						②	
FTA5B2HD102P-S	1,000pF	+100% - 0%	2000Vdc	3000Vdc	20Adc	F (+30~-80%)		②	Style 2
FTA5D3DF252Z-S	2,500pF	+ 80% -20%						③	Style 3

*FTA5C series: Explosion protection products

Dimensions (mm)



Insertion loss (Reference)



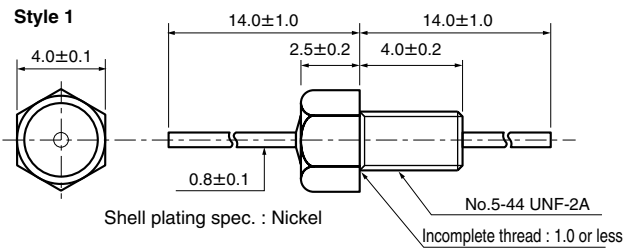
SCREW TYPE EMI FILTERS [FTA Series]

Inch thread type

Part Number List • Specifications for No.5-44 UNF-2A Thread Type

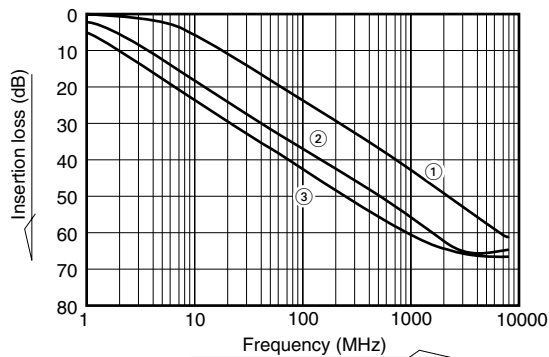
Part number	Capacitance	Capacitance tolerance	Rated voltage	Withstanding voltage	Rated current	Temperature characteristics	Temp. range	Insertion loss	Style
FTA322AR102S-S	1,000pF	+50%, -20%	100Vdc	250Vdc	10A dc	R (+15~-15%)	-55~+125°C	①	Style 1
FTA322AR472S-S	4,700pF							②	
FTA322AR103S-S	10,000pF							③	
FTA322EB100M-S	10pF	±20%	250Vdc	750Vdc		B (+10~-10%)	-25~+ 85°C	④	
FTA322EB220S-S	22pF							⑤	
FTA322EB470S-S	47pF	⑥							
FTA322ED101S-S	100pF	+50%, -20%	250Vdc	750Vdc		D (+20~-30%)	-25~+ 85°C	⑦	
FTA322EE471S-S	470pF							⑧	
FTA322EF102P-S	1,000pF							⑨	
FTA322EF202P-S	2,000pF	+100%, -0%				F (+30~-80%)		⑩	

Dimensions (mm)

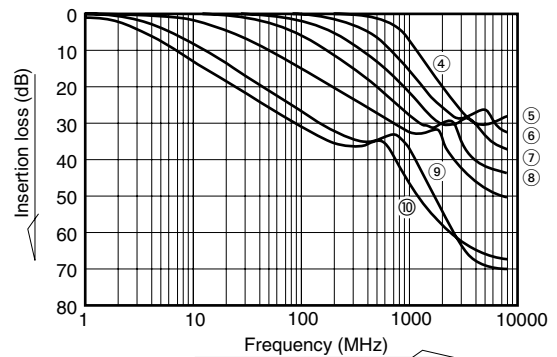


Insertion loss (Reference)

FTA322A Type Insertion Loss data



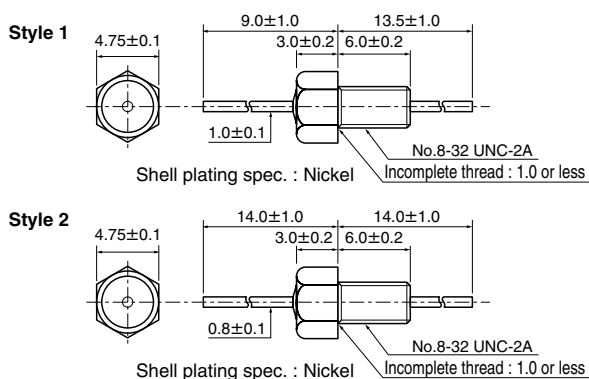
FTA322E Type Insertion Loss data



Part Number List • Specifications for No.8-32 UNC-2A Thread Type

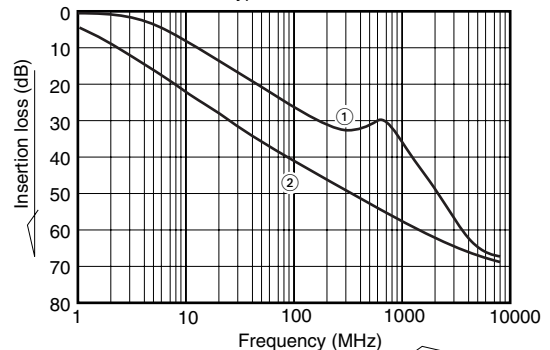
Part number	Capacitance	Capacitance tolerance	Rated voltage	Withstanding voltage	Rated current	Temperature characteristics	Temp. range	Insertion loss	Style
FTA412HR152S-S	1,500pF	+50%, -20%	500Vdc	1000Vdc	15A dc	R (+15~-15%)	-55~+125°C	①	Style 1
FTA412DF103Z-S	10,000pF	+80%, -20%	200Vdc	600Vdc	10A dc	F (+30~-80%)	-25~+ 85°C	②	Style 2

Dimensions (mm)



Insertion loss (Reference)

FTA41 Type Insertion Loss data



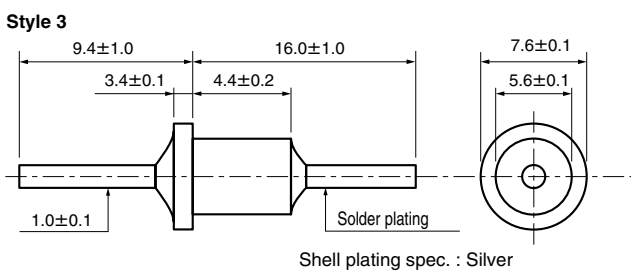
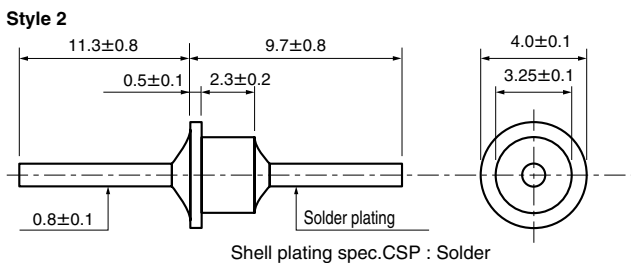
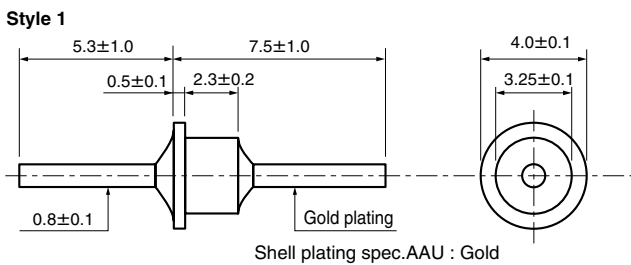
SCREW TYPE EMI FILTERS [FTA Series]

Soldering type

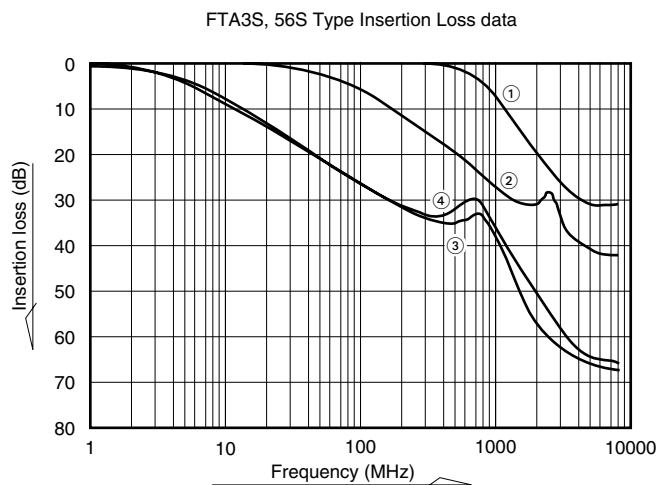
Part Number List • Specifications

Part number	Capacitance	Capacitance tolerance	Rated voltage	Withstanding voltage	Rated current	Temperature characteristics	Temp. range	Insertion loss	Style
FTA3S2AB100MAAU-S	10pF	±20%	100Vdc	250Vdc	10Adc	B (+10~-10%)	-25~+ 85°C	①	Style 1
FTA3S2AE101SAAU-S	100pF	+50% -20%				E (+20~-55%)		②	
FTA3S2AE102PAAU-S	1,000pF	+100% -0%				E (+20~-55%)		③	
FTA3S2AB100MCSP-S	10pF	±20%	250Vdc	1500Vdc	15Adc	B (+10~-10%)	-55~+125°C	①	Style 2
FTA3S2AE101SCSP-S	100pF	+50% -20%				E (+20~-55%)		②	
FTA3S2AE102PCSP-S	1,000pF	+100% -0%				R (+15~-15%)		③	
FTA56S2ER102P-S	1,000pF	+100% -0%						④	Style 3

Dimensions (mm)



Insertion loss (Reference)



Soldering to chassis

When using a soldering Type (FTA3S,56S), please use the following method.

- Recommended Solder
Use low-melting solder of which melting temperature is 165°C max.
- Recommended Method
Use reflow soldering. Avoid rapid heating/cooling, preheat to around 130°C, and then process at 220°C in the reflow zone for 10 sec. max.
- Recommended hole size for soldering

FTA 3S	3.4
FTA56S	5.8