SMA-MF XHz Low-pass Filter

The low-pass filter allows low-frequency signals to pass through normally, while high-frequency signals exceeding a certain threshold are blocked or attenuated. However, the degree of blocking or attenuation may vary depending on the frequency and the specific filtering program (objective). For different filters, the attenuation level of each frequency signal varies.

Technical requirements

Item	Specifications
Model	See datasheet
Temperature	10mK-300K
Connector	SMA-M & SMA-F

Material and surface

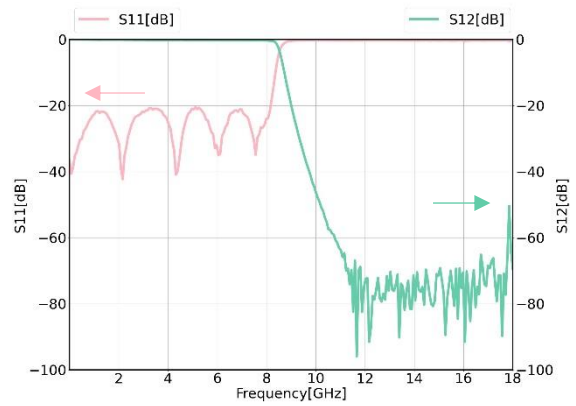| Item		Material	Surface
SMA Connector	**Outer conductor**	Beryllium bronze	Non-magnetic gold plated
	Center conductor	Beryllium bronze	Non-magnetic gold plated
	Connector-dielectric	PTFE	/
Cavity		Oxygen-free copper	Non-magnetic gold plated

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Test Results (FLTG00811A003)

Measure data, T_{amb}=300K
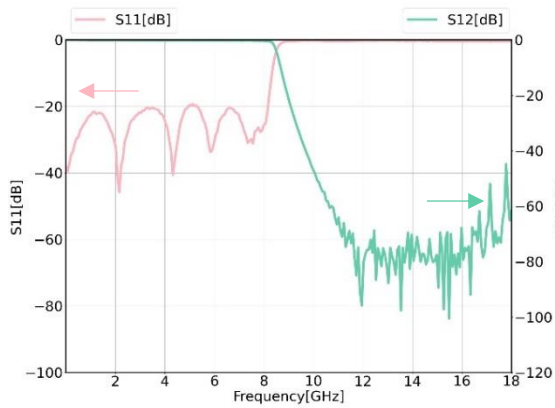
Measure data, T_{amb}=77K

Outline drawing (Unmarked tolerance: ±0.1mm)

FLTG00811A003
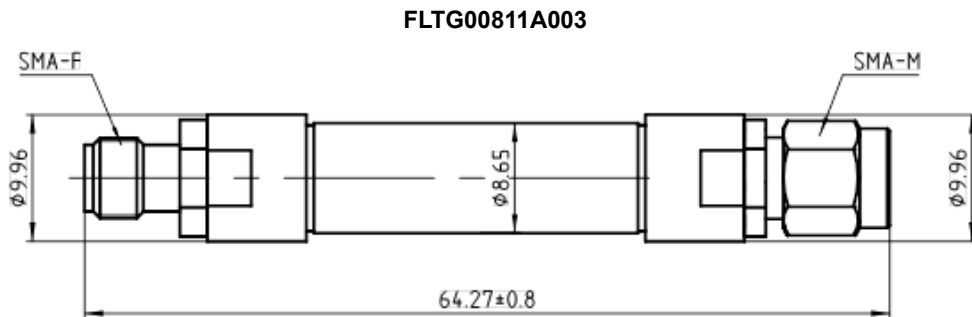
Datasheet

Model	Connector	Frequency range	Insert loss (300K & 77K)	Return loss (300K & 77K)	Out-of-band rejection (300K & 77K)
FLTM01011A047	SMA-M/F	DC-10MHz	≤0.8dB	≥20dB	≥40dB@0.04-5GHz
FLTM08011A085	SMA-M/F	DC-80MHz	≤1dB	≥16dB	≥25dB@0.2-2GHz
FLTM50011A046	SMA-M/F	DC-500MHz	≤0.8dB	≥20dB	≥40dB@1.5-3GHz
FLTG00111A043	SMA-M/F	DC-1GHz	≤1dB	≥20dB	≥25dB@1.6-5.5GHz(300K) ≥20dB@1.6-5.5GHz(77K)
FLTG00611A084	SMA-M/F	DC-6GHz	≤1dB	≥20dB	≥40dB@8-24GHz
FLTG00811A003	SMA-M/F	DC-8GHz	≤1dB	≥18dB	≥30dB@10-16GHz