

Rev:A00

SSMP 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	SSMP-M & SSMP-F

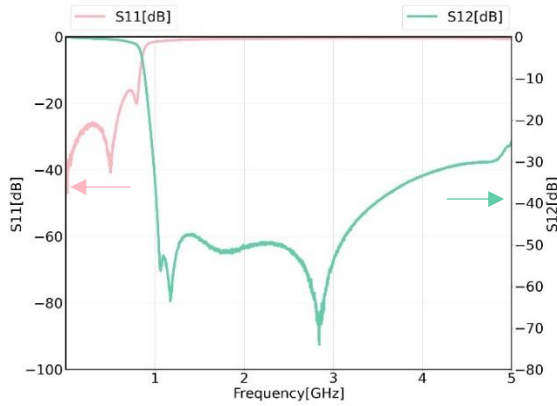
Material and surface

	Item	Material	Surface
SSMP Connector	Outer conductor	Beryllium bronze	Non-magnetic gold plated
	Center conductor	Beryllium bronze	Non-magnetic gold plated
	Connector-dielectric	PTFE	/
	Cavity	Beryllium bronze	Non-magnetic gold plated

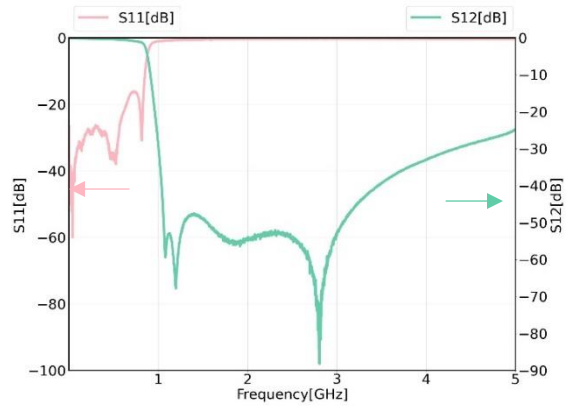
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Test Results (FLTM50022A083)

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

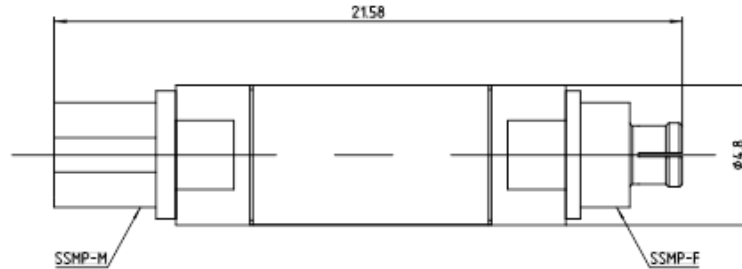


Measure data, $T_{amb}=77K$



Outline drawing (Unmarked tolerance: $\pm 0.1mm$)

FLTM50022A083



Datasheet

Model	Frequency range	Insert loss (300K & 77K)	Return loss (300K & 77K)	Out-of-band rejection (300K & 77K)
FLTM50022A083	DC-500MHz	$\leq 1dB$	$\geq 20dB$	$\geq 30dB@1.1-3.5GHz$
FLTM63022A062	DC-630MHz	$\leq 1dB$	$\geq 20dB$	$\geq 30dB@1.1-3.5GHz$
FLTG00122A007	DC-1GHz	$\leq 1dB$	$\geq 20dB$	$\geq 25dB@1.6-5.5GHz$ $\geq 20dB@1.6-5.5GHz$
FLTG00622A080	DC-6GHz	$\leq 1dB$	$\geq 15dB$	$\geq 20dB@10-18GHz$
FLTG00822A011	DC-8GHz	$\leq 2dB$	$\geq 7dB@DC-6GHz$ $\geq 15dB@6-8GHz$	$\geq 20dB@12-18GHz$