

Rev:A00

SSMP-MF CR110 Infrared Filter



The CR110 infrared filter has a very low attenuation value, which helps protect sensitive quantum devices from the potential impact of high-energy photons that may cause unnecessary heating or decoherence.

Technical requirements

Item	Specification
Model	FLTG00822A049
Frequency range	DC-8GHz
Attenuation value	≤4.5dB@6GHz (300K) ≤3.5dB@6GHz (77K)
Return loss	≥14dB@300K ≥17dB@77K
Temperature	10mK-300K
Connector	SSMP-M & SSMP-F

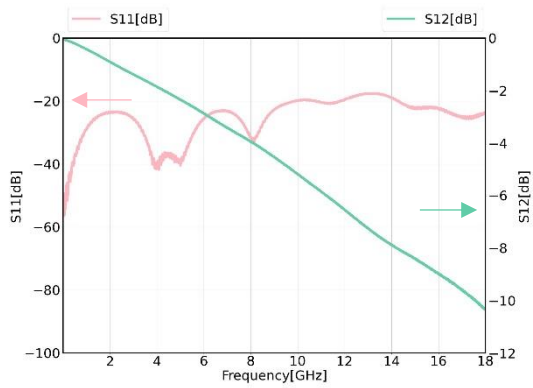
Material and surface

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

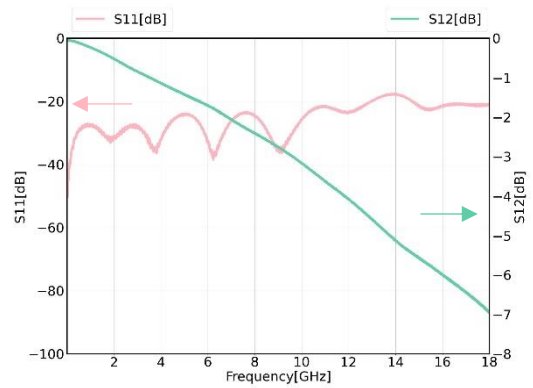
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Test Results

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



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



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

