

Rev:A00

SMA-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	FLTG00811A017	FLTG00811A018
Frequency range	DC-8GHz	
Attenuation value	≤1.8dB@6GHz(300K)	≤3.2dB@6GHz(300K)
	≤1.2dB@6GHz(77K)	≤2.0dB@6GHz(77K)
Return loss	≥20dB@DC-8GHz(300K)	≥19dB@DC-8GHz(300K)
	≥15dB@DC-8GHz(77K)	≥15dB@DC-8GHz(77K)
Temperature	10mK-300K	
Connector	SMA-M & SMA-F	

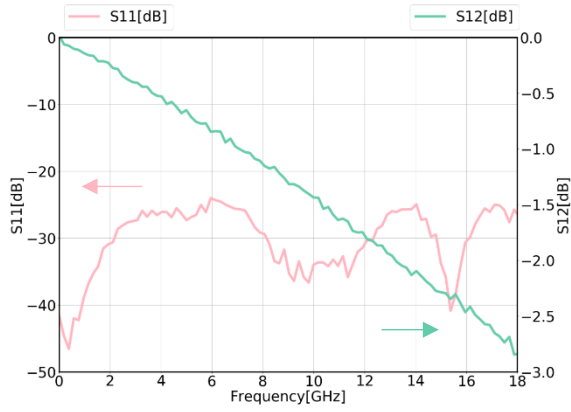
Material and surface

Item	Material	Surface
Cavity	Oxygen-free copper	Non-magnetic gold plated
Center conductor	Beryllium bronze	Non-magnetic gold plated
Dielectric	PTFE	/

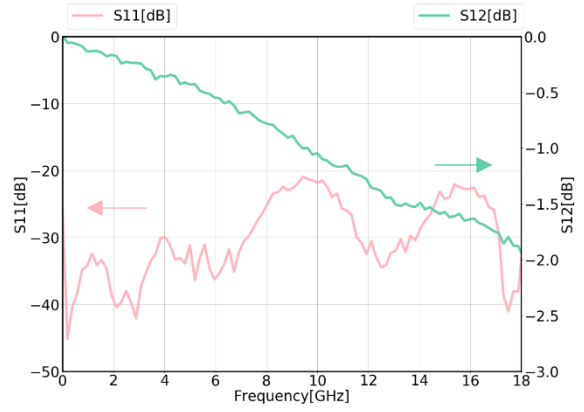
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Test Results (FLTG00811A017)

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



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



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

FLTG00811A017

