

Rev:A00

## SMP-MF CR124 Infrared Filter



The CR124 infrared filter provides protection for sensitive quantum devices against the potential impact of high-energy photons that may cause unnecessary heating or decoherence. We offer infrared filters with different attenuation values.

### Technical requirements

Item	Specification
Model	FLTG00833A116
Frequency range	DC-8GHz
Attenuation value	45±3dB@6GHz(77K)
Return loss	≥15dB@4-8GHz(300K&77K)
Temperature	10mK-300K
Connector	SMP-M & SMP-F

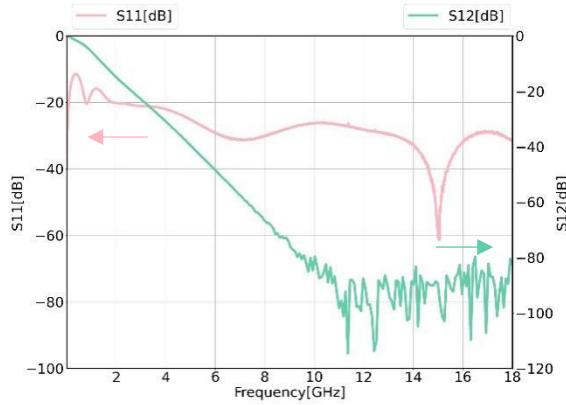
### Material and surface

Item	Material	Surface	
SMP 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	
Center conductor	Beryllium bronze	Non-magnetic gold plated	
Dielectric	PTFE	/	

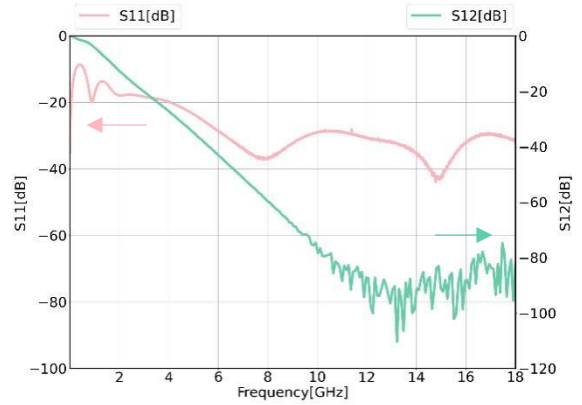
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## Test Results

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



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



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

