

Rev:A00

2.92-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	FLTG00844A136	FLTG00844A138
Frequency range	DC-8GHz	
Attenuation value	40±5dB@6GHz(77K)	20±5dB@6GHz(77K)
Return loss	≥15dB@4-8GHz(300K&77K)	
Temperature	10mK-300K	
Connector	2.92-M & 2.92-F	

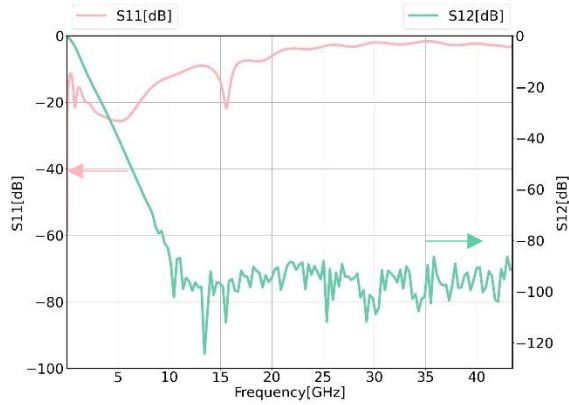
Material and surface

Item	Material	Surface	
2.92 Connector	Outer conductor	Beryllium bronze	Non-magnetic gold plated
	Center conductor	Beryllium bronze	Non-magnetic gold plated
	Connector-dielectric	PEI	/
Cavity	Oxygen-free copper	Non-magnetic gold plated	
Center conductor	Beryllium bronze	Non-magnetic gold plated	
Dielectric	PTFE	/	

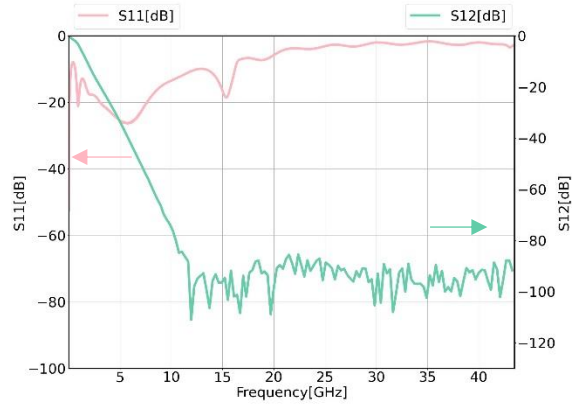
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Test Results (FLTG00844A136)

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



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



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

FLTG00844A136

