

Rev:A00

SSMP-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	Specifications
Model	See datasheet
Temperature	10mK-300K
Connector	SSMP-M & SSMP-F

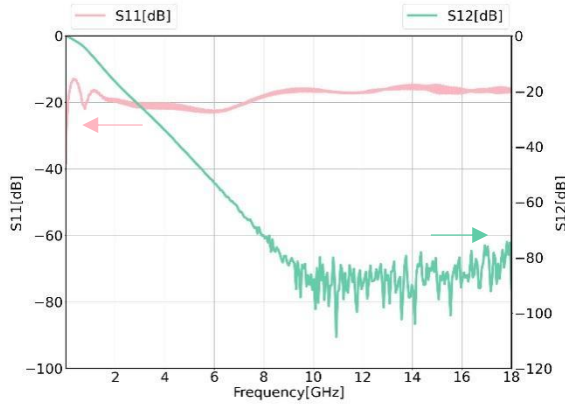
Material and surface

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	
Center conductor	Beryllium bronze Non-magnetic gold plated	
Dielectric	PTFE /	

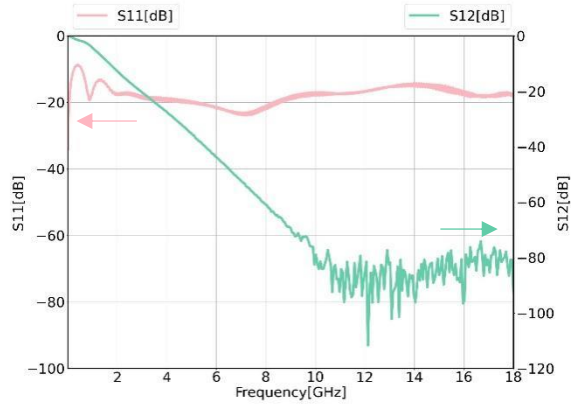
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Test Results (FLTG00822A054)

Measure data, T_{amb}=300K

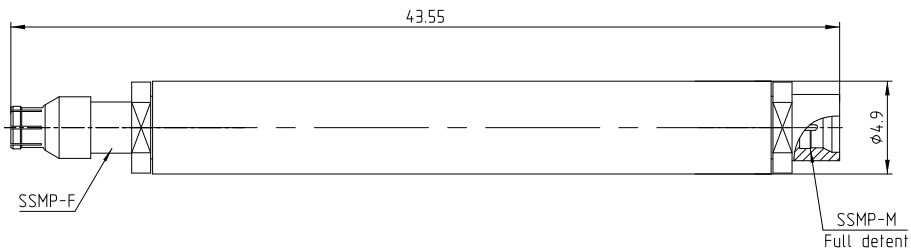


Measure data, T_{amb}=77K



Outline drawing (Unmarked tolerance: ±0.1mm)

FLTG00822A054



Datasheet

Model	Attenuation value	Return loss
FLTG00822A071	15±5dB@5GHz (77K)	≥ 15dB@4-8GHz(300K&77K)
FLTG00822A055	25±5dB@6GHz (77K)	≥ 15dB@4-8GHz(300K&77K)
FLTG00822A068	35±5dB@6GHz (77K)	≥ 15dB@4-8GHz(300K&77K)
FLTG00822A054	45±5dB@6GHz (77K)	≥ 15dB@4-8GHz(300K&77K)