

Rev:A00

## 2.92-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	
<b>Model</b>	FLTG00844A135	FLTG00844A137
<b>Frequency range</b>	DC-8GHz	
<b>Attenuation value</b>	≤2.5dB@6GHz (300K)	≤4dB@6GHz (300K)
	≤1.8dB@6GHz (77K)	≤2.5dB@6GHz (77K)
<b>Return loss</b>	≥14dB@300K	
	≥16dB@77K	
<b>Temperature</b>	10mK-300K	
<b>Connector</b>	2.92-M & 2.92-F	

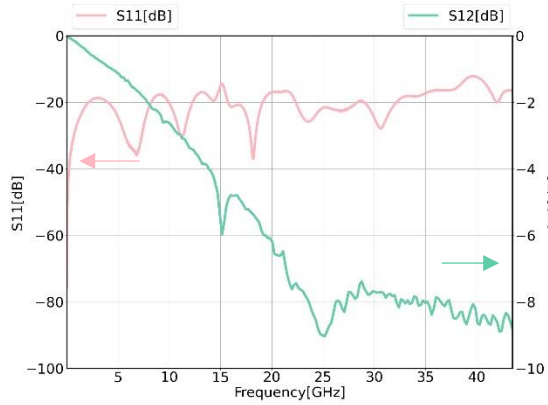
### Material and surface

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

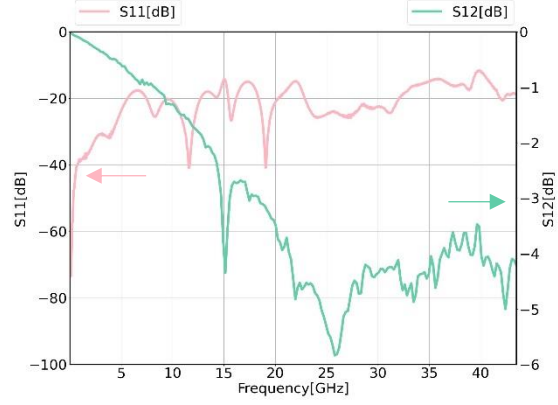
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### Test Results (FLTG00844A135)

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



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



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

#### FLTG00844A135

