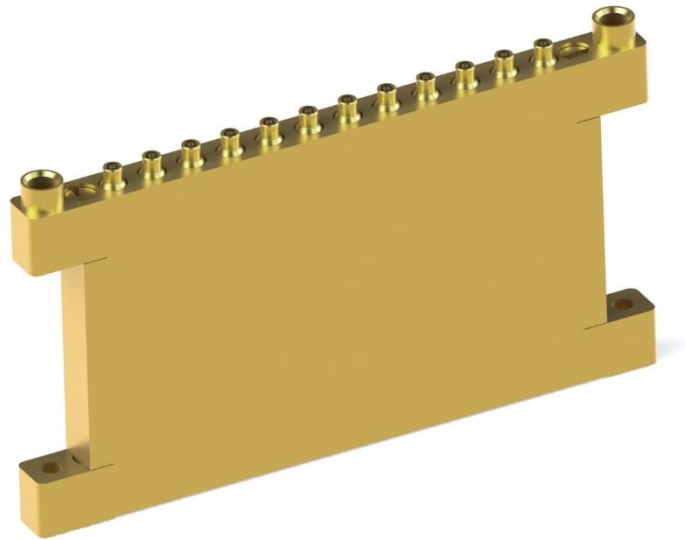


Rev:A00

Infrared Filter Assembly



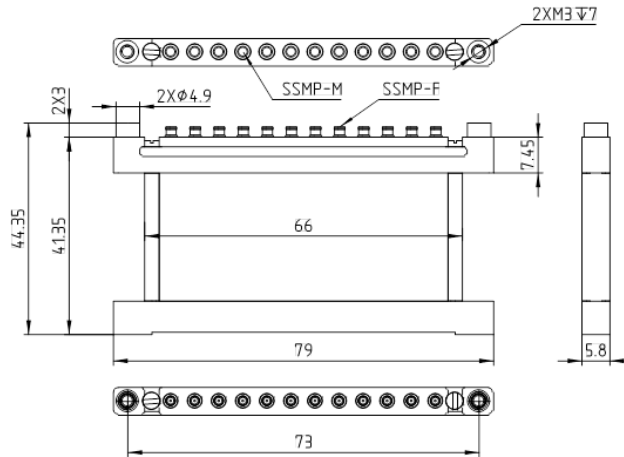
The infrared filter protects sensitive quantum devices from the potential impact of high-energy photons that may cause unnecessary heating or decoherence. We reduce the size of the infrared filter and integrate it into the dilution refrigerator, which improves the space utilization of the dilution refrigerator.

Technical requirements

Connector		
Connector Type	SSMP-MF or SMP3-MF	
Connector material	Outer conductor	Non-magnetic gold plated Beryllium bronze
	Center conductor	Non-magnetic gold plated Beryllium bronze
	Connector-dielectric	PTFE
Infrared Filter Assembly		
Model	See datasheet	
Temperature	10mK-300K	
Frequency range	DC-8GHz	
Packaging case Material	Non-magnetic gold plated Oxygen-free copper	

Infrared Filter Assembly

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



Datasheet

Model	Media	Connector	Attenuation value (77K)
FLTG00822A070	CR124	SSMP-MF	15 \pm 5dB@5GHz
FLTG00822A058	CR124	SSMP-MF	25 \pm 5dB@6GHz
FLTG00822A067	CR124	SSMP-MF	35 \pm 5dB@6GHz
FLTG00822A057	CR124	SSMP-MF	45 \pm 5dB@6GHz
FLTG00822A111	CR124	SSMP-MF	15 \pm 5dB@5GHz
FLTG00822A112	CR124	SSMP-MF	25 \pm 5dB@6GHz
FLTG00822A073	CR124	SSMP-MF	35 \pm 5dB@6GHz
FLTG00822A113	CR124	SSMP-MF	45 \pm 5dB@6GHz
FLTG00822A126	CR124	SSMP-MF	15 \pm 5dB@5GHz
FLTG00822A127	CR124	SSMP-MF	15 \pm 5dB@5GHz
FLTG00822A128	CR124	SSMP-MF	25 \pm 5dB@6GHz
FLTG00822A129	CR124	SSMP-MF	25 \pm 5dB@6GHz
FLTG00822A093	CR124	SSMP-MF	35 \pm 5dB@6GHz
FLTG00822A094	CR124	SSMP-MF	35 \pm 5dB@6GHz
FLTG00822A130	CR124	SSMP-MF	45 \pm 5dB@6GHz
FLTG00822A131	CR124	SSMP-MF	45 \pm 5dB@6GHz
FLTG01888A101	CR124	SMP3-MF	30 \pm 5dB@6GHz
FLTG00822A026	CR110	SSMP-MF	$\leq 3.5\text{dB@6GHz}$
FLTG00822A110	CR110	SSMP-MF	$\leq 3.5\text{dB@6GHz}$
FLTG00822A132	CR110	SSMP-MF	$\leq 3.5\text{dB@6GHz}$
FLTG00822A133	CR110	SSMP-MF	$\leq 3.5\text{dB@6GHz}$

Infrared filter assembly performance refer to single filter performance.

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