Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

High-density Cryogenic Infrared Filter

12 channel /SSMP Female/ SSMP Male/

Infrared Filters protect sensitive quantum devices that operate below 1 K from high-energy photons that can cause unwanted heating or decoherence. In addition, they improve the thermalization of the center conductor in a coaxial line. A common application of IR Filters is in superconducting qubit devices where infrared radiation is suspected to generate quasi-particle excitations that reduce the coherence time of the qubit.

Features:

- Based on magnetically loaded dielectric absorber
- Capable of operation at 10 mK
- Impedance: 50 Ω

Applications:

- Dilution refrigerators/Cryogenic devices
- Quantum Computing

Electrical Characteristics:

Model	Parameter			
	Frequency	Insertion Loss	Return Loss	Impedance
TL-CRYOIRHF12-1001	DC-10GHz	1dB@10GHz 6dB@30GHz	-20dB	50Ω
TL-CRYOIRHF12-1002	DC-10GHz	2dB@10GHz 10dB@30GHz	-20dB	50Ω
TL-CRYOIRHF12-1005	DC-10GHz	5dB@10GHz 20dB@30GHz	-20dB	50Ω

Envrionmental And Physical Characteristics:

Description	Parameter	Units
Operating Temerature	10mK To +200	℃
Storage Temerature	-55 to +200	℃
Of Channels	12	
Packaging case	Gold Plated OFHC Copper	
Connector	SSMP Male to Female	

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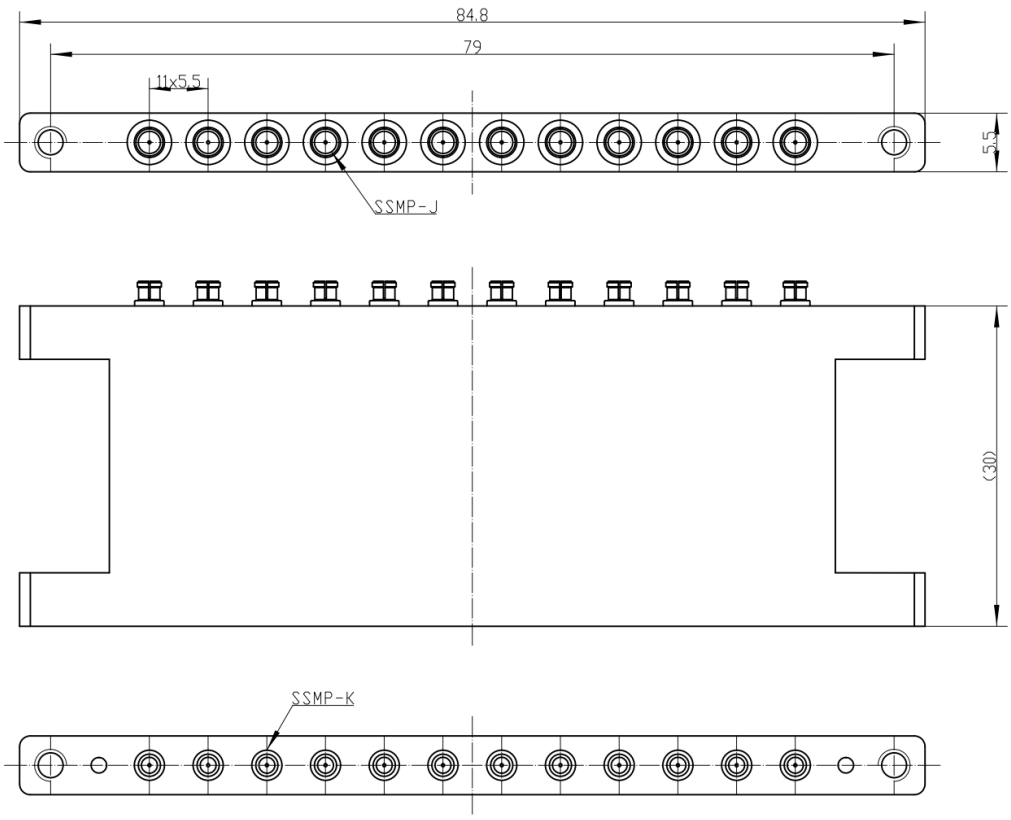
Outline Drawing: Unit:mm



Ordering Information:

Base Number	Desciption	Revision
TL-CRYOIRHF12-1001	12 channel SSMP High-density Cryogenic Infrared Filter 1dB@10GHz	Rev.1.1
TL-CRYOIRHF12-1002	12 channel SSMP High-density Cryogenic Infrared Filter 2dB@10GHz	Rev.1.1
TL-CRYOIRHF12-1005	12 channel SSMP High-density Cryogenic Infrared Filter 5dB@10GHz	Rev.1.1