

## High-density Cryogenic Low Pass Filter

12 channel /SSMP Female/ SSMP Male/

Model: TLLF-DC-XG-12SSMP-Cryo

Our low-pass filters have a customizable cut-off frequency with flat roll-off in the pass band and 40 to 80 dB suppression in the stop band. By integrating these filters, noise and undesired frequencies can be suppressed at the quantum device.

### Features:

- Temperature stable
- Rugged unibody construction
- Good rejection, 60 dB typical

### Applications:

- Dilution refrigerators/Cryogenic devices
- Quantum Computing

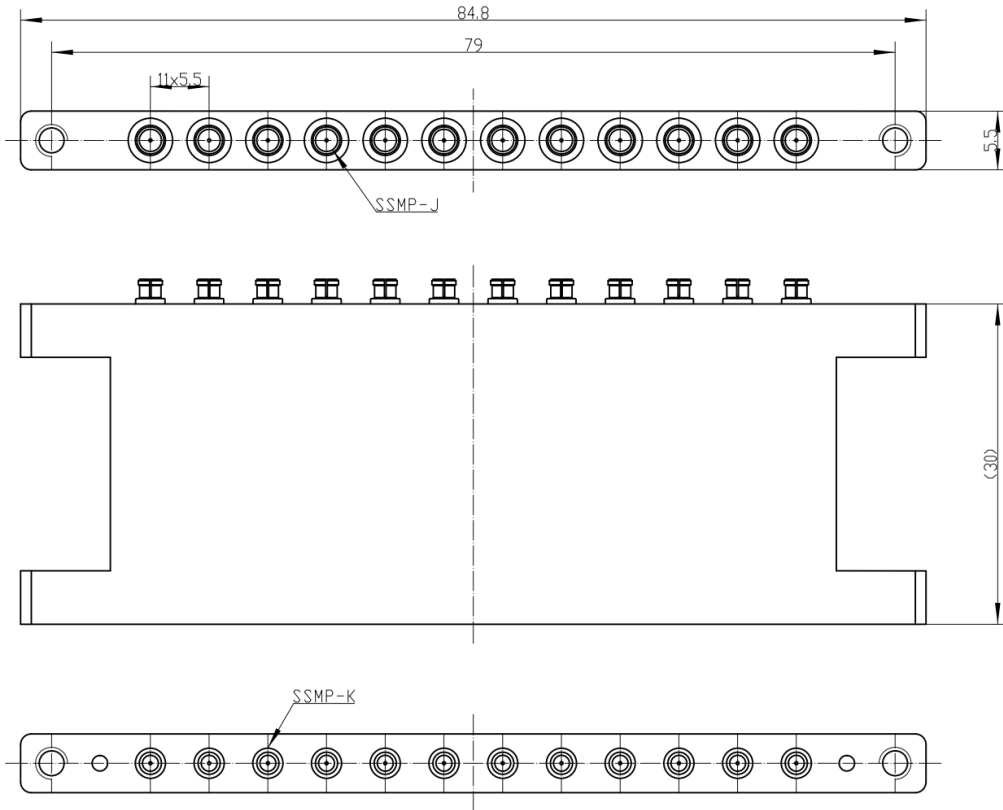
### Electrical Characteristics:

Model	Parameter				
	Pass Band Frequency	Pass Band Insertion Loss	Pass Band Return Loss	Rejection	Impedance
TLLF-DC-1G-12SSMP-Cryo	DC-1GHz	2 dB	-13dB	40dB@2-40GHz	50Ω
TLLF-DC-8G-12SSMP-Cryo	DC-8GHz	1.6dB	-13dB	40dB@11.5-40GHz	50Ω
TLLF-DC-12G-12SSMP-Cryo	DC-12GHz	1.6dB	-13dB	40dB@14.5-40GHz	50Ω

### Environmental And Physical Characteristics:

Description	Parameter	Units
Operating Temperature	10mK To +200	°C
Storage Temperature	-55 to +200	°C
Of Channels	24	
Packaging case	Gold Plated OFHC Copper	
Connector	SSMP Male to Female	

**Outline Drawing:**      Unit:mm



**Ordering Information:**

Base Number	Description	Revision
TLLF-DC-1G-12SSMP-Cryo	12 channel SSMP High-density Cryogenic DC-1GHz Low Pass Filter	Rev.1.1
TLLF-DC-8G-12SSMP-Cryo	12 channel SSMP High-density Cryogenic DC-8GHz Low Pass Filter	Rev.1.1
TLLF-DC-12G-12SSMP-Cryo	12 channel SSMP High-density Cryogenic DC-12GHz Low Pass Filter	Rev.1.1