

QMC-CRYOIRF-001

Cryogenic Low Cut-Off Frequency Infrared Filter

Key Features

- Cryogenic Low Cut-Off Frequency Infrared Filter
- IR filter to enhance Qubit Performance
- Based on Magnetically loaded dielectric absorber
- Eccosorb CR 124
- Impedance 50 Ω
- Housing gold plated OFHC Copper
- Various connector configurations



QMC-CRYOIRF-001



QMC-CRYOIRF-001MF

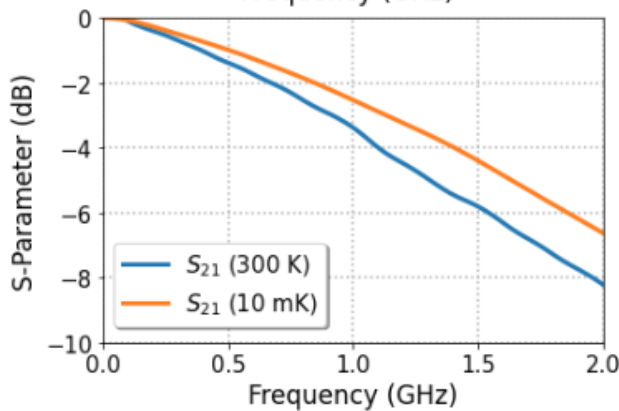
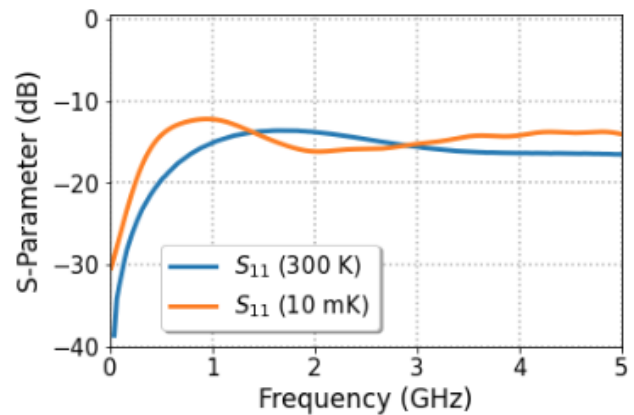
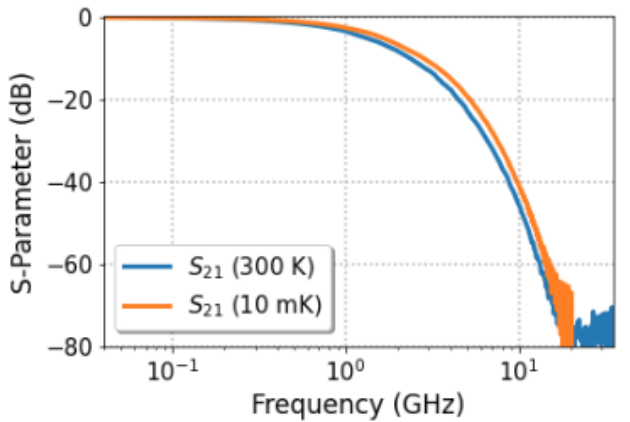


QMC-CRYOIRF-001MF-S

Performance

Frequency	DC – 900 MHz
Insertion loss (10 mK)	40 dB @ 10 GHz
Return loss (10 mK)	12 dB

Scattering Parameters



IR filters were characterized cryogenically in a dilution refrigerator utilizing the Quantum Microwave testing services. For more information on testing services offered contact sales@QuantumMicrowave.com

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Connector Configurations

QMC-CRYOIRF-001 series available in the following connector configurations (order number)



**SMA male-female
(QMC-CRYOIRF-001MF-S)**

**SMA female-female
(QMC-CRYOIRF-001-S)**



**SMA Bulkhead female-female
(QMC-CRYOIRF-001)**



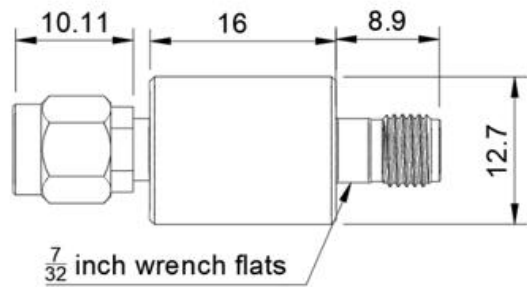
**SMA Bulkhead male-female
(QMC-CRYOIRF-001MF)**



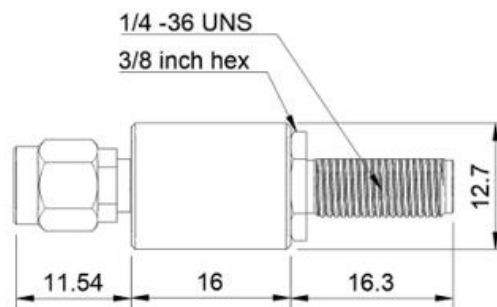
**SMP male-female
(QMC-CRYOIRF-001MF-SMP)**

**SMPM male-female
(QMC-CRYOIRF-001MF-MSMP)**

Drawings



QMC-CRYOIRF-001MF-S



QMC-CRYOIRF-001MF