

QMC-CRYOIRF-003

Cryogenic High Cut-Off Frequency Infrared Filter

Key Features

- Cryogenic High Cut-Off Frequency Infrared Filter
- IR filter to enhance Qubit Performance
- Based on Magnetically loaded dielectric absorber
- Eccosorb CR 110
- Length of absorber region 6 mm
- Impedance 50 Ω
- Housing gold plated OFHC Copper
- Various connector configurations



QMC-CRYOIRF-003-S



QMC-CRYOIRF-003MF-S

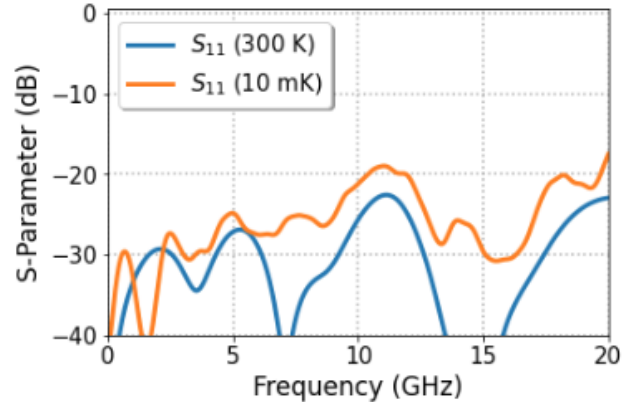
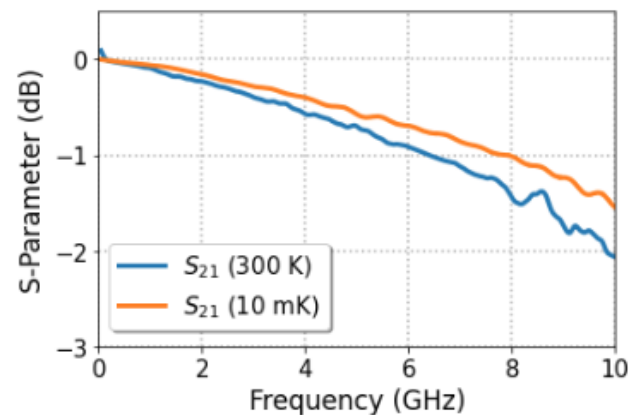
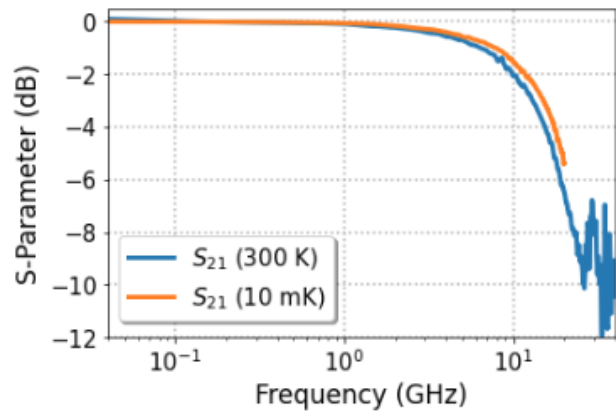


QMC-CRYOIRF-003

Performance

Frequency	DC – 10 GHz
Insertion loss (10 mK)	1.5 dB @ 10 GHz
Return loss (10 mK)	20 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

QMC-CRYOIRF-003

Cryogenic High Cut-Off Frequency Infrared Filter

Connector Configurations

QMC-CRYOIRF-003 available in the following connector configurations (order number)



SMA male-female
(QMC-CRYOIRF-003MF-S)



SMA female-female
(QMC-CRYOIRF-003-S)



SMA Bulkhead female-female
(QMC-CRYOIRF-003)

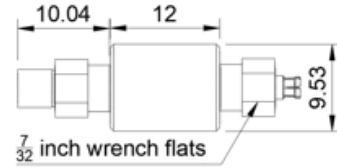


SMP male-female
(QMC-CRYOIRF-003MF-SMP)

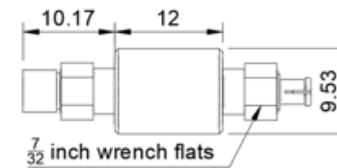


SMPM male-female
(QMC-CRYOIRF-003MF-MSMP)

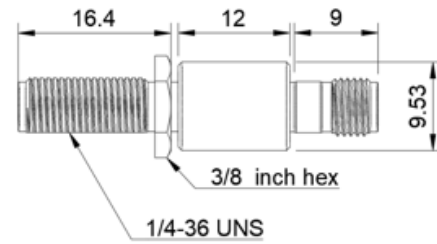
Drawings



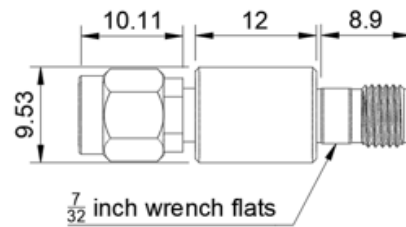
QMC-CRYOIRF-003MF-MSMP



QMC-CRYOIRF-003MF-SMP



QMC-CRYOIRF-003



QMC-CRYOIRF-003MF-S