



## QMC-CLCE-160AFF

Integrated LC Infrared Filter



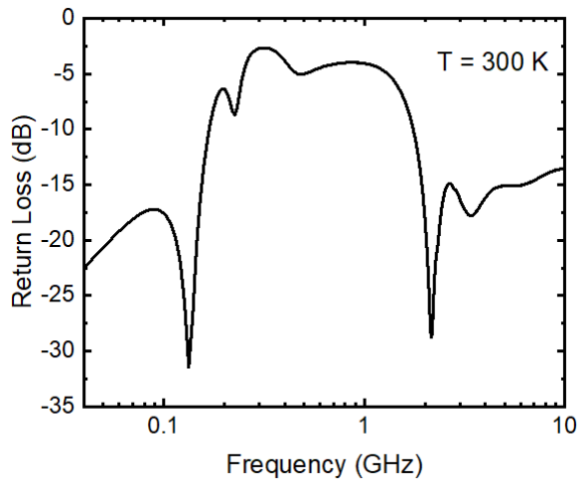
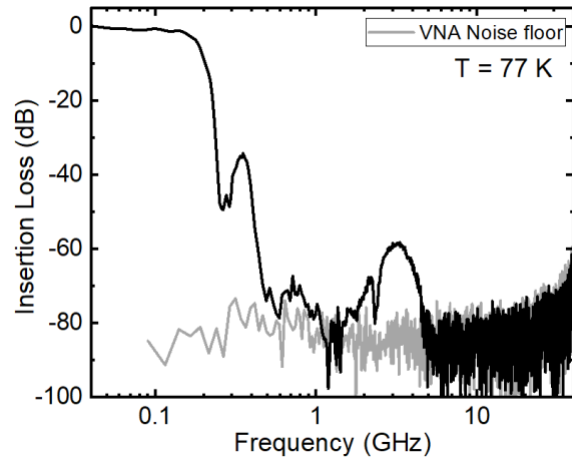
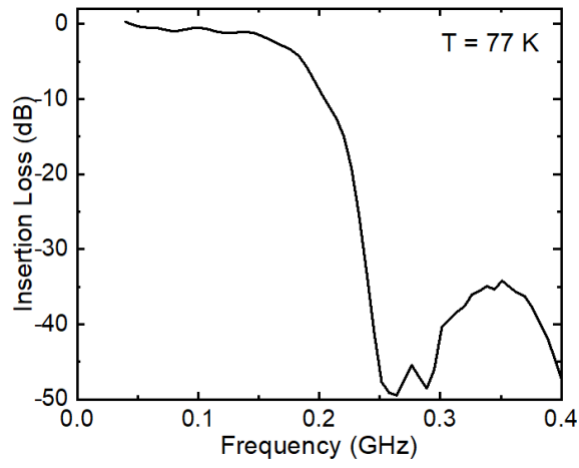
Specifications:

- Insertion loss < 1 dB up to 120 MHz
- Cutoff 3 dB @ 160 MHz, > 35 dB at 250 MHz
- Return loss in pass band better than 17 dB
- Based on integrated LTCC filter with magnetically loaded dielectric absorber Eccosorb CR 124
- Impedance: 50  $\Omega$
- Capable of operation at 10 mK
- Connector 1: SMA Female
- Connector 2: SMA Female
- Housing Gold Plated OFHC Copper

Description:

The QMC-CLCE-160AFF is an integrated infrared absorber and multi-stage LC filter which has a cutoff frequency of 160 MHz with a steep roll-off of >35 dB at 250 MHz provided by the reflective LC filter and continuous attenuation provided by infrared absorber out to >100 GHz. The filter incorporates infrared absorber only regions of dielectric which prevents high frequency transmission through low-loss dielectrics. The filter is designed for low temperature operation with good thermalization to OFHC copper housing.

Typical Frequency Response:



Functional Circuit Schematic

