

Cryogenic Bulkhead Attenuators

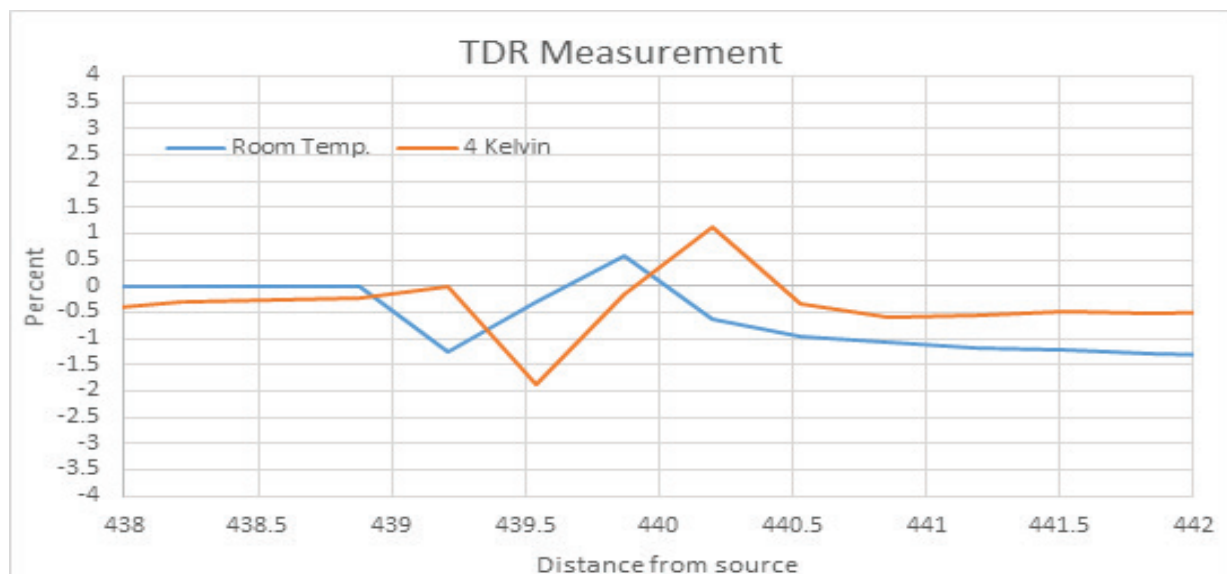
Bulkhead RF Attenuators

XMA is committed to designing and manufacturing high quality solutions for the cryogenic market and quantum computing applications. XMA's new line of RF bulkhead attenuators are designed to eliminate the need for RF adapters within the cryostat chill plates; the advantages of this design include less contact points and improved thermal anchoring. XMA's bulkhead attenuators are available in frequencies to 10GHz, 18GHz and 40GHz and designed to operate and maintain exceptional stability at temperatures as low as 4° Kelvin (-269.15°C).



Features and Benefits

- Eliminates the need for RF adapters between cryostat chill plates, reducing BOM count and contact points for optimal signal and thermal performance
- Excellent performance at extreme cryogenic temperatures
- Nichrome film does not superconduct at 4°K
- Superior stability with little to no drift in attenuation over large temperature changes
- Minimal change in resistance values at cryogenic temperatures
- Available in several frequency bands from DC-40GHz
- Temperature Coefficient of Resistance (TCR) of < 15ppm/°C



Typical performance of a 40GHz Cryogenic Attenuator

*Testing done by a 3rd party lab

To learn more about XMA's Cryogenic Components visit xmacorp.com