



TR Multicoax Attenuator

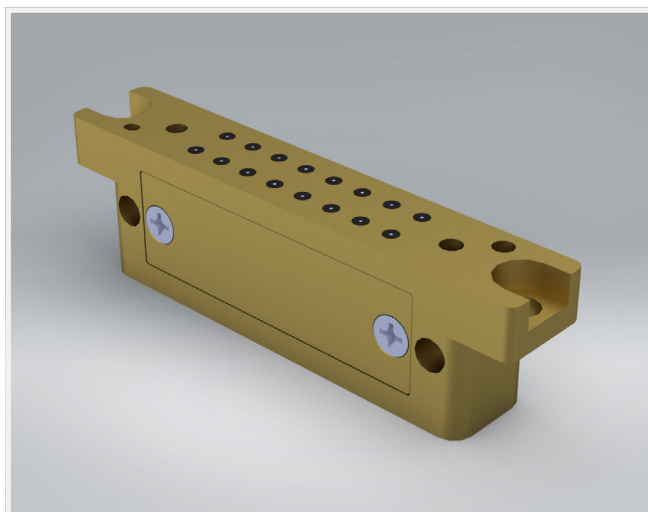
Preliminary Datasheet

GANGED COAXIAL ATTENUATOR

High density thermalized low noise cryogenic bulkhead attenuator array for use with Amphenol Ardent Concepts TR multicoax connectors.

Ardent's in line attenuation blocks are ideal for use in:

- Dilution refrigerators/Cryogenic devices
- Quantum Computing
- Vacuum Chambers



TARGET MARKETS



FEATURES

- 16 Integrated Attenuators
- Frequency: DC to 12 GHz
- 0, 3, 6, 10, and 20 dB models
- Ardent Concepts TR compatible
- Machined OFHC block, gold plated
- NiCr on thermally conductive dielectric
- Non-superconducting microstrip attenuator pad
- Silver Epoxy bonded

BENEFITS

- Small form factor for space constrained environments
- Ideal for Quantum Computing applications
- Multiple attenuation values available for experimentation
- Substantial channel increase over traditional surface mount connectors
- Minimal change in attenuation with temperature

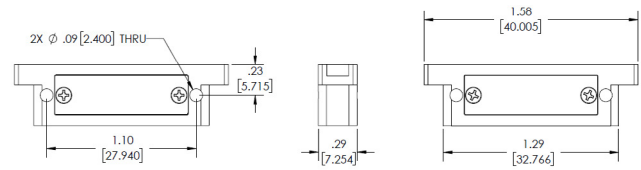
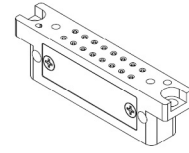
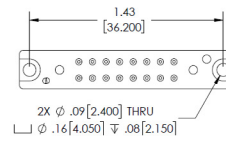
TECHNICAL INFORMATION

SIGNAL INTEGRITY PERFORMANCE

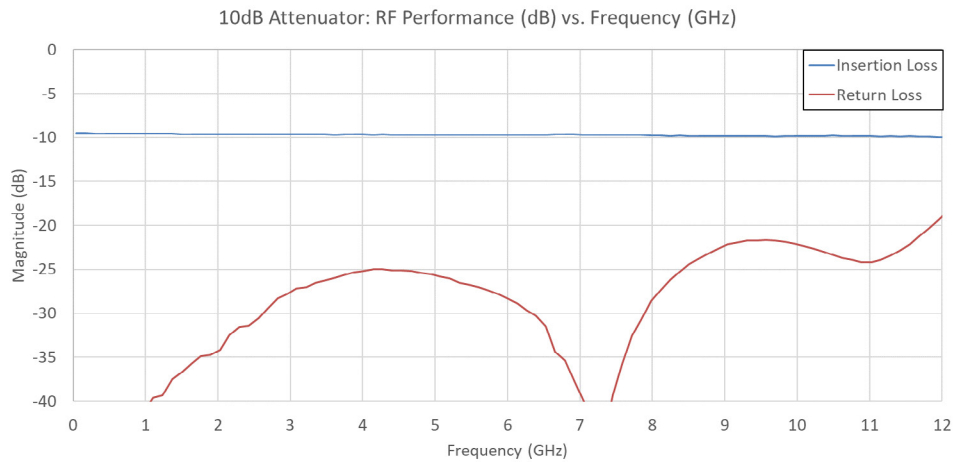
- Frequency Range: DC to 12 GHz
- Attenuation @ 5 GHz: +/- 0.5 dB or +/- 5% (greater of)
- Insertion Loss variation with frequency: <1.0 dB
- Return Loss, all models: -15 dB typ.
- Max Power Handling: 100 mW

MECHANICAL PERFORMANCE

- Mates with TR Multicoax connectors
- Temperature rating: 10mK+



Simulated Data



Measured Data

