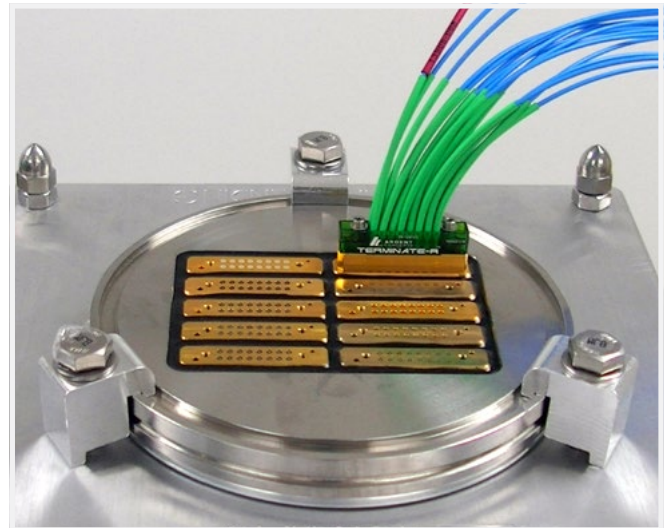


TR Multicoax 50Ω Hermetic Feedthrough

50Ω FEEDTHROUGH WHERE HERMETICITY IS CRUCIAL TO THE TRANSMISSION OF HIGH SPEED SIGNALS

50Ω Hermetic Feedthrough is ideal for applications where hermeticity is crucial to the transmission of high speed signals. In these applications, TR Multicoax connectors are mated to the hermetic feedthrough on either end ensuring an impedance matched 50Ω channel between any two chambers. The feedthrough is fixed to a flange (such as an ISO disk) with screws in blind-holes from the inside of the vacuum. The hermetic feedthrough is completely sealed using an epoxy potting.



TARGET MARKETS



FEATURES

- Leak-proof design
- Variety of coaxial cable materials available for milliKelvin (mK) temperatures (Flexible, CuNi, NbTi)
- Extremely dense form factor
- Ganged assembly mates with just a few captive screws
- Robust interface

BENEFITS

- Max leak rate 2.00E-09 LTorr
- Allows for use at various vacuum stages in harsh environments
- Can fit 160+ channels in standard ISO disc
- Quick connection of multiple high-speed lanes
- Ensures no signal degradation up to 1000 mates/de-mates

TECHNICAL INFORMATION

MATERIAL

- Victrex Peek 450G
- 303 Stainless Steel with gold over nickel plate
- BeCu Alloy 172

MECHANICAL

- 16 and 24 channel versions
- Potted and O-Ring versions
- Mechanical Cycles: 1000

ELECTRICAL

- Performance out to 40 GHz
- Return Loss: ≤ -10 dB to 30 GHz, ≤ -5 dB to 40 GHz
- Insertion Loss: ≤ -0.9 dB to 30 GHz, ≤ -2.7 dB to 40 GHz

PACKAGING

- Individually packaged in anti-static bag

SPECIFICATION

- 50Ω impedance
- 2.54mm/4.00mm pitch signal to signal

ENVIRONMENTAL

- Max leak rate 2.00E-09 Ltorr
- Rated down to 10mK temperatures

TOOLING INFORMATION

- 4 mounting holes in ISO disk or bulkhead required for feedthrough mounting. Feedthrough provides mounting and tooling for TR connector to attach to the feedthrough

TARGET MARKETS/APPLICATIONS

- Dilution refrigerators/Cryogenic devices
- Quantum Computing
- Vacuum Chambers
- Anywhere where RF signals need to be passed through a sealed wall

PART NUMBERS

16 Channel, 2.54mm Pitch 50Ω Hermetic Feedthrough	FT-16X2-2.54-1
16 Channel, 4.00mm Pitch 50Ω Hermetic Feedthrough	FT-16X2-4.00-1
24 Channel, 2.54mm Pitch 50Ω Hermetic Feedthrough	FT-24X2-2.54-1