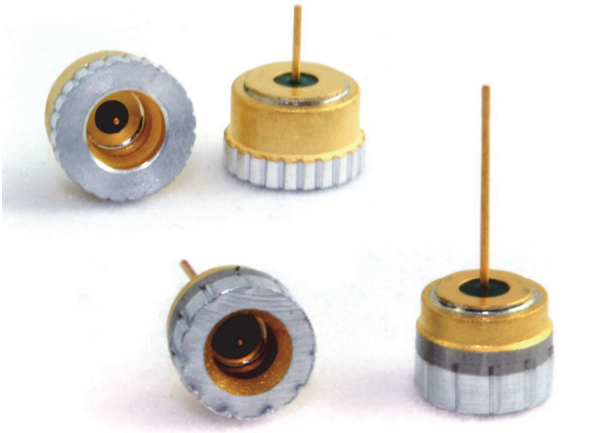
Hermetically Sealed Connectors

Innovative Interconnect Solutions

Connectors



RF Feedthroughs

SRI HERMETICS a division of WINCHESTER

SRI Hermetics, a division of Winchester Electronics, was founded on the principle of using advanced engineering and material science to create the world's leading hermetic electrical connectors and electronic packaging solutions.

Hermetic Seal Advantage

- A hermetic seal is more than air tight and is designed to keep any damaging particles from infecting the outside environment or the function of electronic equipment.
- This seal can last up to 20 years (whereas an epoxy can become defective in less than 2 years).

Customization

When a standard product won't suffice, customization is our business. Tell us your problem and we will find a solution, whether it be:

- 3D Design & Engineered Solutions
- Mixed Metals
- Customized Interfaces
- Varying Form Factors

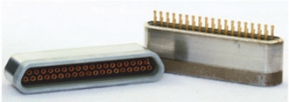
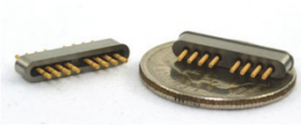
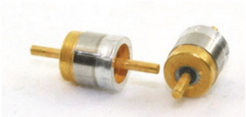
Markets

- Medical
- Military
- Aviation
- Space
- Industrial
- Instrumentation
- Marine, Oil & Gas

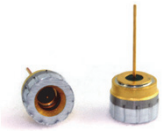
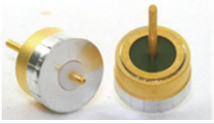
Applications

- Extreme Temperature Exposure
- Harsh Environments
- Dust Free Settings
- Sensitive Conditions

Available Hermetic Connectors

Sub-D Conforms to: MIL-DTL-24308	
Micro-D Conforms to: MIL-DTL-83513	
Nano Conforms to: MIL-DTL-32139/4	
Circular	
Headers	
DC Single-Pin	

Available Hermetic RF Feedthroughs

SMP	
SMPM	
TNC	
SMA	
SSMA	

Hermetic Connector Specifications

Each contact is sealed with our proprietary ceramic, *Ceramax*.

Advantages:

- Solution to glass seal failures by eliminating cracking that is associated with glass or multiphase ceramics.
- High reliability connector that can withstand extreme environmental conditions.

Materials:

- Beryllium-copper contacts giving you the highest current-carrying capabilities.
- All available in Stainless Steel, Aluminum, and Titanium.

Specifications:

- Utilizing SRI Hermetics' core technologies of exclusive ceramic dielectric material (as opposed to glass) in our connector manufacturing processes, as well as joining dissimilar metals through explosion welding, vacuum brazing, laser welding, and diffusion bonding, we are able to produce superior, high-performance hermetically sealed interconnect solutions that can adapt to any material.

Hermetic RF Feedthrough Specifications

Each contact is sealed with Corning 7070 equivalent glass.

Advantages:

- A more-than-air-tight seal that can last up to 20 years.

Materials:

- All RF feedthroughs are made with nickel-iron-cobalt alloy in accordance with ASTM F15.

Specifications:

- RF ground springs are BeCu alloy 172/173 in accordance with ASTM B 194.

Multi-pin Feedthroughs

- Multipin feedthroughs available for vacuum applications.
- All connectors and RF feedthroughs can be laser welded into flanges or fittings in any material or configuration.

Electronic Packaging

- All RF feedthroughs and connectors can be integrated into higher level assemblies and electronic packages such as chassis and vacuum assembly packages.
- These packages are available in Stainless Steel, Aluminum, and Titanium or any combination thereof.

Certifications

Certification	Description
AS 9100	Aerospace Quality Management System
IPC/WHMA-A-620 (Class 3)	Requirements and Acceptance Standards for Cable and Wire Harness Assemblies
ISO 9001:2008	Quality Management Systems
ISO 14001:2004	Environmental Management System

Winchester Electronics
203.741.5400 Phone
203.741.5500 Fax
www.winchesterelectronics.com
Follow us on:

January 2015