

# Hermetic Optical Windows



Tekna Seal products, like Hermetic Optical Windows, are now sold under the Win™ brand from Winchester Interconnect™.

## Product Description

Winchester Interconnect uses custom-blended Metal Injection Molding (MIM) alloys and a unique approach to glass sealing allowing the use of high optical quality glass materials to achieve the highest performance available.

Using MIM technology, Winchester tailors the thermal expansion properties of the metal frame to match the coefficient of expansion of the desired glass, and then uses the proprietary oxide-free glass sealing process to form a rugged and stress-free glass-to-metal bond.

## Winchester Advantages:

- Ability to use a wide variety of optical glasses providing high transmittance and freedom from bubbles and inclusions
- Highest levels of hermeticity, far surpassing frit-sealed windows and adhesive bonded windows, providing the longest life for the packaged optical devices
- No opportunity for hazing of the window due to outgassing of bonding adhesives
- Elimination of the metallization required for solder or braze-bonded windows
- Post-sealing optical processing for best optical properties
- Stress-free window assemblies for lowest birefringence
- Cost savings in moderate to high volume production

Since every hermetic seal optical window is custom designed for the specific customer application, it is best to contact us to discuss your requirements.

**When you are ready to start your hermetic project, our staff works with you to design products to meet those needs.**



*We Energize Innovation.*



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### **Winchester Product Brands**

Stronger and more unified, Winchester Interconnect now offers solutions under four powerful product brands. Be assured that all of the solutions you rely on today are available from Winchester Interconnect.

For more information, talk to your current sales expert or visit [winconn.com/brands](http://winconn.com/brands).

Bomar  
Continental  
SRC Haverhill  
SRI Connector Gage  
SRI Hermetics  
Tekna Seal  
Winchester

**Win** 

**Tru**  **Win**

**Kings**  **Win**

**Cadillac**  **Win**