

## 461nm Mini Single Stage Free-Space Optical Isolator



Mini Free-Space Optical Isolators

Stock #72-624 **CLEARANCE** 1 In Stock

⊖ 1 ⊕ A\$3,800<sup>00</sup>

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### Volume Pricing

Qty 1+	A\$3,800.00 each
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### General

Single Stage Optical Isolator **Type:**  
Faraday **Style:**

### Physical & Mechanical Properties

10.00 **Length (mm):**  
1.5 **Clear Aperture CA (mm):**

9.20 **Diameter (mm):**

## Optical Properties

**Minimum Transmission (%):**  
>80

**Design Wavelength DWL (nm):**  
461

**Damage Threshold, By Design:**   
4 kW/cm<sup>2</sup> @ DWL

**Minimum Isolation at Design Wavelength (dB):**  
>35

## Environmental & Durability Factors

**Operating Temperature (°C):**  
+15 to +40

## Regulatory Compliance

**Certificate of Conformance:**  
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## Product Details

- Small, <1cm<sup>3</sup>, Form Factor
- Greater than 70% Minimum Transmission and >30dB Minimum Isolation
- Input Apertures as Low as 1.60mm

Mini Free-Space Optical Isolators are designed around a less than 1cm<sup>3</sup> form factor with an incorporated Faraday Rotator while maintaining a superior performance with high isolation, transmission, and power densities. These isolators effectively reduce feedback in the external cavity of diode laser systems and blocks reflections from free-space fiber coupling. Designed to be resistant to environmental temperature changes these isolators are capable of integration into systems with where fluctuating temperatures are a concern. Mini Free-Space Optical Isolators increase power stabilization in optical systems and also eliminate feedback-induced damage to sensitive optical components. These isolators are ideal for quantum technology applications such as quantum communication, simulation, cryptography, sensors, computing, and networks.

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