

461nm Mini Single Stage Free-Space Optical Isolator

Stock #72-624 CLEARANCE 1 In Stock



Mini Free-Space Optical Isolators

⊖ 1 ⊕

A\$3,800^{.00}

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Volume Pricing	
Qty	A\$3,800.00
1+	each
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EO Spec Sheet

General

Type: Single Stage Optical Isolator

Style: Faraday

Physical & Mechanical Properties

Length (mm): 10.00

Clear Aperture CA (mm): 1.5

Diameter (mm): 9.20

Optical Properties

Minimum Transmission (%): >80

Design Wavelength DWL (nm): 461

Damage Threshold, By Design: 4 kW/cm² @ DWL

Minimum Isolation at Design Wavelength (dB): >35

Environmental & Durability Factors

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

Regulatory Compliance

Certificate of Conformance: [View](#)

Product Details

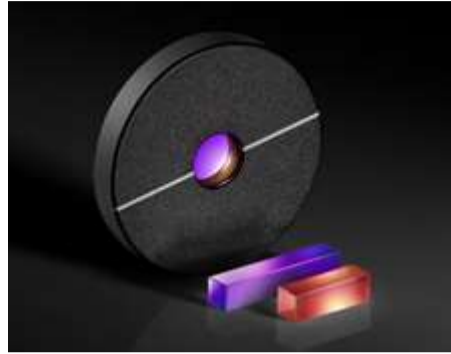
- Small, <1cm³, Form Factor
- Greater than 70% Minimum Transmission and >30dB Minimum Isolation
- Input Apertures as Low as 1.60mm

Mini Free-Space Optical Isolators are designed around a less than 1cm³ 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.

Related Products



C, S, and T-Mount Circular Optic Mounts



Crystals and Isolators



Free-Space Optical Isolators

Resources

Media Type

Application Note

APPLICATION NOTE

Homogeneity and Scatter from Inclusions and Bubbles

APPLICATION NOTE

Thermal Properties of Optical Substrates