

## 795nm Mini Single Stage Free-Space Optical Isolator



Mini Free-Space Optical Isolators

Stock #72-629 **CLEARANCE** 1 In Stock

⊖ 1 ⊕ €2.375<sup>00</sup>

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ⓘ Prices shown are exclusive of VAT/local taxes

### Product Downloads

#### General

Single Stage Optical Isolator **Type:**

Faraday **Style:**

#### Physical & Mechanical Properties

7.69 **Length (mm):**

**Clear Aperture CA (mm):**

1.5

Diameter (mm):

7.90

## Optical Properties

Minimum Transmission (%):

>70

Design Wavelength DWL (nm):

795

Damage Threshold, By Design:

60 W/cm<sup>2</sup> @ DWL

Minimum Isolation at Design Wavelength (dB):

>30

## 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

Mni 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. Mni 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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