

# 780nm High Power Mini Single Stage Free-Space Optical Isolator



Mini Free-Space Optical Isolators

Stock **#72-628** CLEARANCE **1 In Stock**

-

1

+

A\$8,864<sup>00</sup>

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| Qty 1+         | A\$8,864.00 each              |
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General

Single Stage Optical Isolator

Type:

Faraday

Style:

Physical & Mechanical Properties

13.10

Length (mm):

3.5

Clear Aperture CA (mm):

|                                    |                                                       |
|------------------------------------|-------------------------------------------------------|
| 11.60                              | Diameter (mm):                                        |
| Optical Properties                 |                                                       |
| >70                                | Minimum Transmission (%):                             |
| 780                                | Design Wavelength DWL (nm):                           |
| 60 W/cm² @ DWL                     | Damage Threshold, By Design: <input type="checkbox"/> |
| >30                                | Minimum Isolation at Design Wavelength (dB):          |
| Environmental & Durability Factors |                                                       |
| +15 to +40                         | Operating Temperature (°C):                           |
| Regulatory Compliance              |                                                       |
| <a href="#">View</a>               | Certificate of Conformance:                           |

## 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.

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