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

Mini Free-Space Optical Isolators

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

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A$8,864.00

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General

Type:
Single Stage Optical Isolator

Style:
Faraday

Physical & Mechanical Properties

Length (mm):
13.10

Clear Aperture CA (mm):
3.5

Diameter (mm):
11.60

Optical Properties

Minimum Transmission (%):
>70

Design Wavelength DWL (nm):
780

Damage Threshold, By Design:
60 W/cm^2 @ DWL

Minimum Isolation at Design Wavelength (dB):
>30

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.

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