

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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1

+

£4,432⁰⁰

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General

Single Stage Optical Isolator

Type:

Faraday

Style:

Physical & Mechanical Properties

13.10

Length (mm):

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.

