

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



Mini Free-Space Optical Isolators

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1

+

₹4,50,000

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SPECIFICATIONS

General

Single Stage Optical Isolator	Type:
Faraday	Style:

Physical & Mechanical Properties

3.5	Clear Aperture CA (mm):
11.60	Diameter (mm):
13.10	Length (mm):
Optical Properties	
780	Design Wavelength DWL (nm):
>70	Minimum Transmission (%):
60 W/cm ² @ DWL	Damage Threshold, By Design: ☐
>30	Minimum Isolation at Design Wavelength (dB):
Environmental & Durability Factors	
+15 to +40	Operating Temperature (°C):
Regulatory Compliance	
View	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.

