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# 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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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | €2.375,00 each                |
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**i** 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: <input type="checkbox"/> |
| 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:                           |
| <a href="#">View</a>               |                                                       |

## 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.

