

# miniature.

Compact optical isolators with high transmission and isolation



## Single-Stage Mini Isolators

Low SWaP for high integration or field deployment

- Small package < 1 cm<sup>3</sup>
- High guaranteed isolation, high transmission
- Wavelengths for key quantum applications
- Designed and manufactured by the laser experts of TOPTICA

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# Single-Stage Mini Isolators

| Specifications              |                      |                      |             |             |               |             |
|-----------------------------|----------------------|----------------------|-------------|-------------|---------------|-------------|
| Model                       | m-SSR461             | m-SSR637             | m-SSR689    | m-SSR780    | m-SSR780HP    | m-SSR795    |
| Design wavelength           | 461 nm               | 637 nm               | 689 nm      | 780 nm      | 780 nm        | 795 nm      |
| Size<br>Diam. x length [mm] | ∅ 9.2 x 10.0         | ∅ 5.8 x 7.6          | ∅ 6.0 x 7.2 | ∅ 5.8 x 7.6 | ∅ 11.6 x 13.1 | ∅ 7.9 x 7.7 |
| Clear aperture              | 1.5 mm               | 3.5 mm               | 1.5 mm      |             |               |             |
| Isolation                   | > 35 dB              | > 30 dB              |             |             |               |             |
| Transmission                | > 80 %               | > 70 %               |             |             |               |             |
| Power handling              | 4 kW/cm <sup>2</sup> | 60 W/cm <sup>2</sup> |             |             |               |             |



Mini-isolators are available at key wavelengths relevant to quantum technology applications, and many more visible and near-infrared wavelengths are available on request, as are custom form factors.