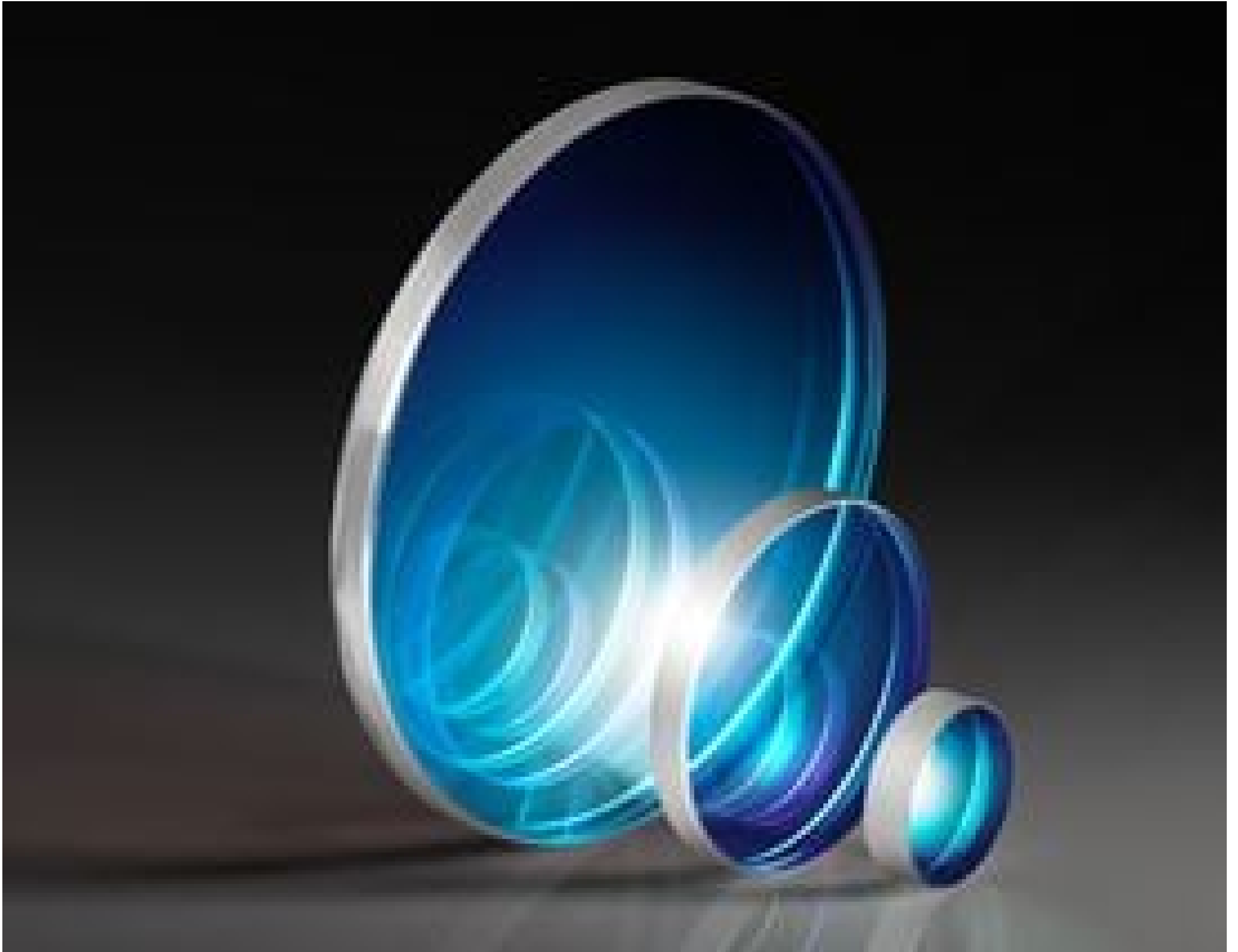


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## 12.5mm Dia., Low GDD 940/1030nm Yb-Doped Dichroic Mirrors



Yb-Doped Dichroic Mirrors

Stock **#28-971** **4 In Stock**

⊖ 1 ⊕ C\$459<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-5	C\$459.20 each
Qty 6-25	C\$389.20 each
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### Product Downloads

#### General

High Power Dichroic Window **Type:**

#### Physical & Mechanical Properties

3.00 ±0.20 **Thickness (mm):**

11.25 **Clear Aperture CA (mm):**

**Diameter (mm):**

12.50 +0.0/-0.10

**Edges:**

Fine Ground

**Wedge Angle (arcmin):**

30' ±10'

## Optical Properties

**Substrate:**

Fused Silica (Corning 7980)

**Index of Refraction (n<sub>d</sub>):**

1.458

**Surface Quality:**

10-5

**Angle of Incidence (°):**

0 - 5

**Coating:**

S1: HR 1030nm ± 5nm, AR 940 ± 5nm  
S2: AR 940nm & 1030nm ± 5nm

**Design Wavelength DWL (nm):**

940nm/1030nm

**Surface Flatness (P-V):**

λ/10

**Coating Specification:**

S1: R<sub>p</sub> & R<sub>s</sub> >99.5% @ 1030nm;  
T<sub>p</sub> & T<sub>s</sub> >98% @ 940nm @ 0 – 5° AOI  
S2: T<sub>p</sub> & T<sub>s</sub> >98% @ 940nm & 1030nm

**Damage Threshold, Reference:**

> 20 J/cm<sup>2</sup> @ 10ns pulses @5 kHz PRF  
1MW/cm<sup>2</sup> CW

## Regulatory Compliance

**Certificate of Conformance:**

[View](#)

## Product Details

- High Reflectivity at 1030nm and High Transmission at 940nm
- Low Group Delay Dispersion (GDD) <±100fs<sup>2</sup>
- Dichroic Mirror Ideal for Ytterbium (Yb) Lasers

Yb-Doped Dichroic Mirrors feature a high reflectivity of 99.5% at 1030nm and transmission of 98% at 940nm with wide acceptance angles of 0 – 5°. Featuring wedged substrates that minimize back reflections even at 0° AOI, these mirrors eliminate unwanted feedback in laser systems and are available in either 12.5, 25, or 50mm diameters with a thickness of 3mm. Designed for high power applications utilizing nanosecond pulses, these mirrors are ideal for precision material processing. Yb-Doped Dichroic Mirrors also offer a Low Group Delay Dispersion (GDD) of <±100fs<sup>2</sup> from 1030nm – 1080nm, making them useful for ultrafast and nonlinear applications including multi-photon microscopy.