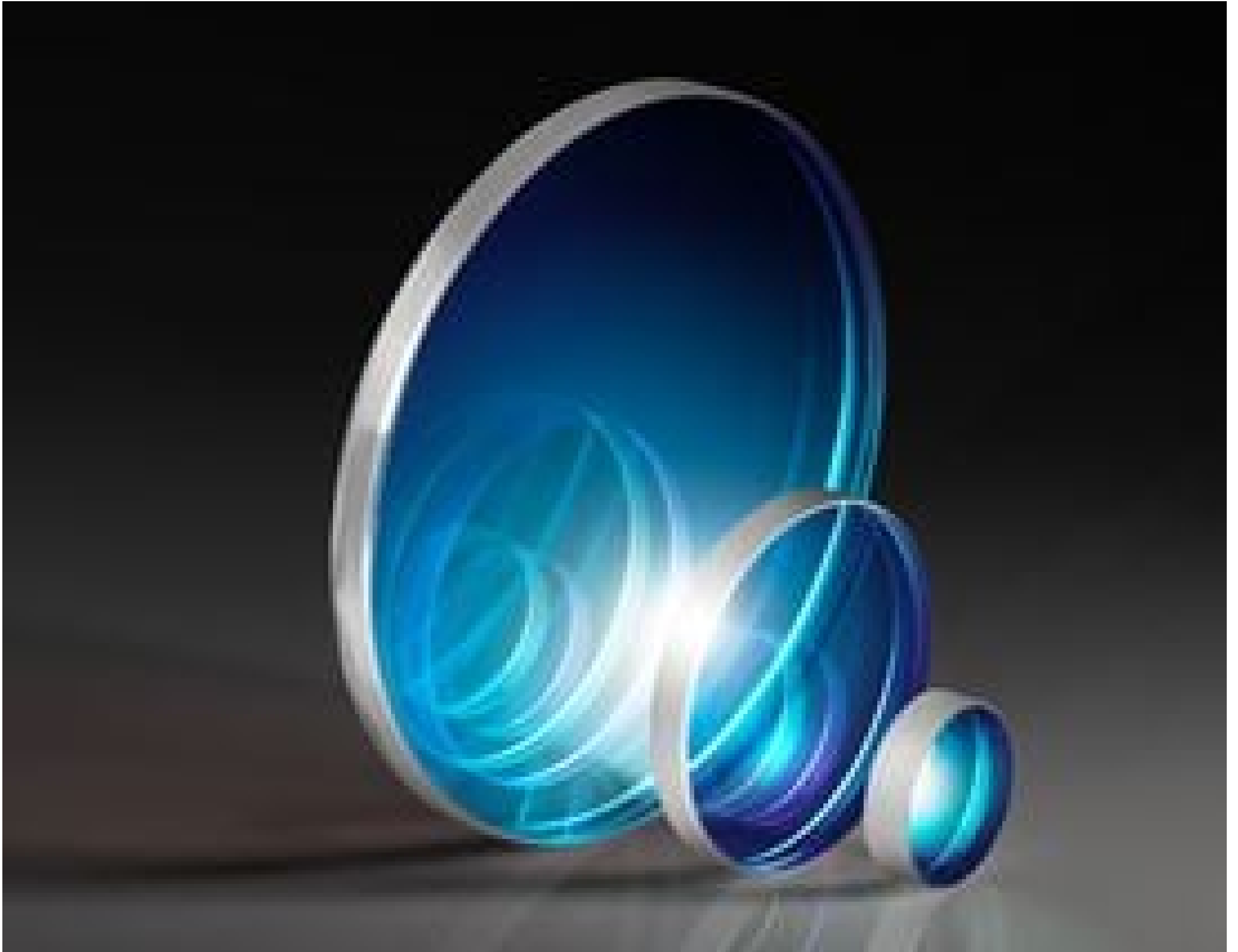


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## 50mm Dia., Low GDD 940/1030nm Yb-Doped Dichroic Mirrors



Yb-Doped Dichroic Mirrors

Stock **#28-973** [CONTACT US](#)

⊖ 1 ⊕ £800<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-5	£800.00 each
Qty 6-25	£676.00 each
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ⓘ Prices shown are exclusive of VAT/local taxes

### Product Downloads

#### General

High Power Dichroic Window **Type:**

#### Physical & Mechanical Properties

3.00 ±0.20 **Thickness (mm):**

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

50.00 +0.0/-0.10 **Diameter (mm):**

Fine Ground **Edges:**

30' ±10' **Wedge Angle (arcmin):**

## Optical Properties

Fused Silica (Corning 7980) **Substrate:**

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

10-5 **Surface Quality:**

0 - 5 **Angle of Incidence (°):**

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

940nm/1030nm **Design Wavelength DWL (nm):**

λ/10 **Surface Flatness (P-V):**

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 **Coating Specification:**

> 20 J/cm<sup>2</sup> @ 10ns pulses @5 kHz PRF  
1MW/cm<sup>2</sup> CW **Damage Threshold, Reference:**

## Regulatory Compliance

[View](#) **Certificate of Conformance:**

## 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.