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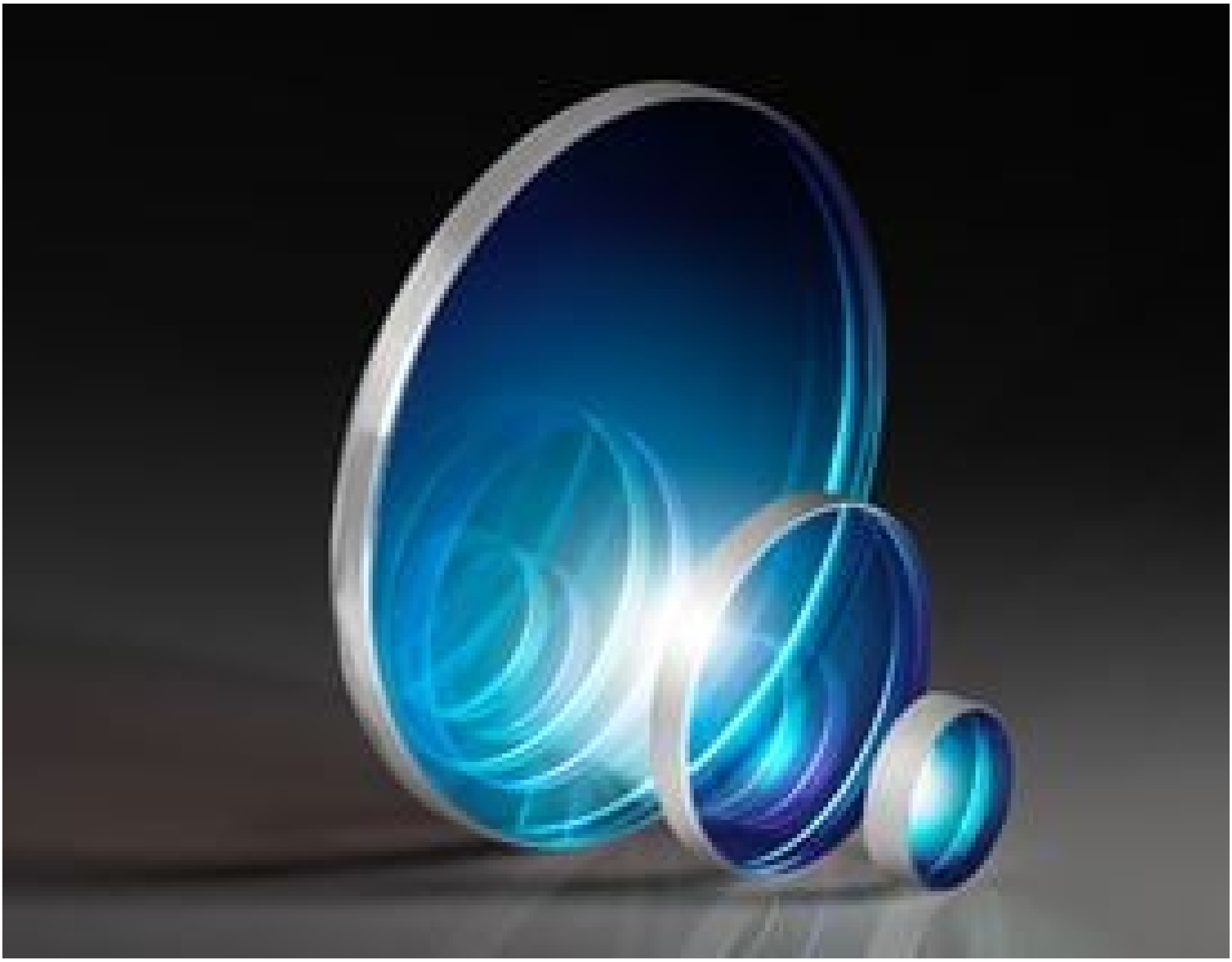
# 25mm Dia., Low GDD 940/1030nm Yb-Doped Dichroic Mirrors



Yb-Doped Dichroic Mirrors

Stock **#28-972** **2 In Stock**

- 1 + **A$936**.00

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| Volume Pricing | |
|---|---|
| Qty 1-5 | **A$936.00** each |
| Qty 6-25 | **A$795.20** each |
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## General

**Type:**

High Power Dichroic Window

## Physical & Mechanical Properties

**Thickness (mm):**

3.00 ±0.20

**Clear Aperture CA (mm):**

22.50

**Diameter (mm):**

25.00 +0.0/-0.10

**Edges:**

Fine Ground

**Wedge Angle (arcmin):**

30' ±10'

## Optical Properties

**Substrate:**

Fused Silica (Corning 7980)

**Index of Refraction ($n_d$):**

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: $R_p$ & $R_s$ >99.5% @ 1030nm;
$T_p$ & $T_s$ >98% @ 940nm @ 0 – 5° AOI
S2: $T_p$ & $T_s$ >98% @ 940nm & 1030nm

**Damage Threshold, Reference:**

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

## Regulatory Compliance

**Certificate of Conformance:**

View

# Product Details

- High Reflectivity at 1030nm and High Transmission at 940nm
- Low Group Delay Dispersion (GDD) <±100fs$^2$
- 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$^2$ from 1030nm – 1080nm, making them useful for ultrafast and nonlinear applications including multi-photon microscopy.

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