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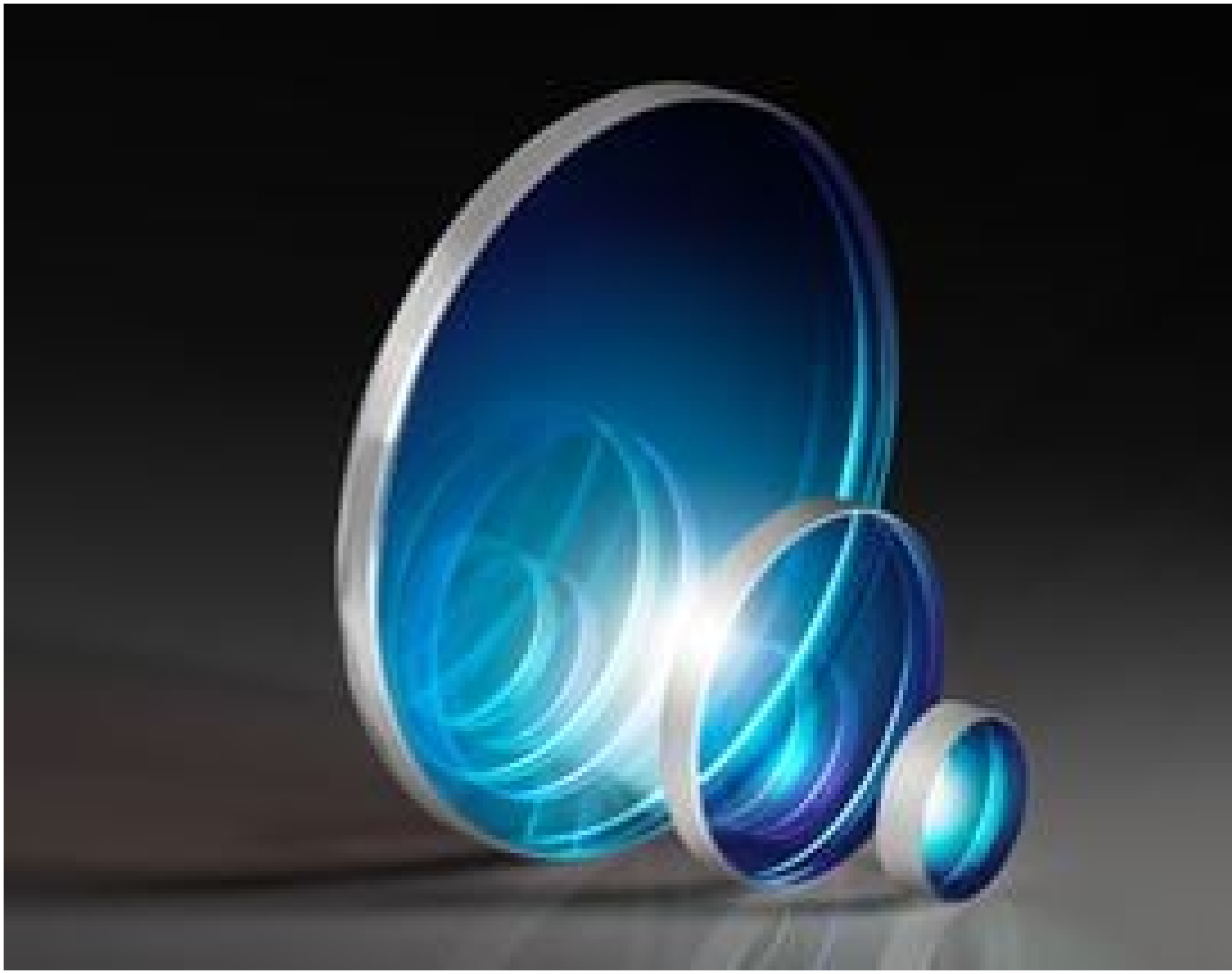
50mm Dia., Low GDD 940/1030nm Yb-Doped Dichroic Mirrors



Yb-Doped Dichroic Mirrors

Stock **#28-973** CONTACT US

- 1 + **A$1,600**.00

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Volume Pricing	
Qty 1-5	**A$1,600.00** each
Qty 6-25	**A$1,352.00** each
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General

Type:

High Power Dichroic Window

Physical & Mechanical Properties

Thickness (mm):

3.00 ±0.20

Clear Aperture CA (mm):

45.00

Diameter (mm):

50.00 +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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