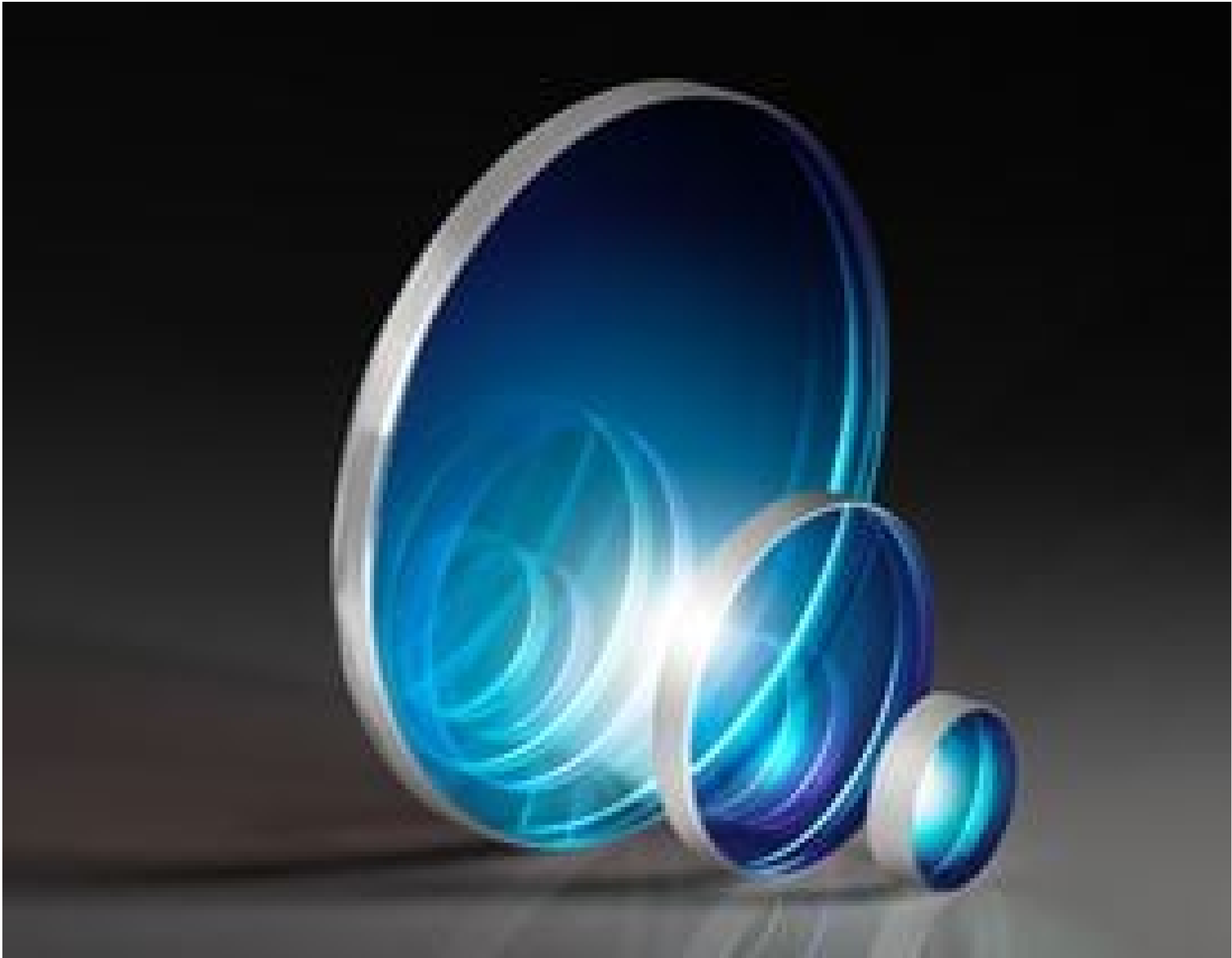


50mm Dia., Low GDD 940/1030nm Yb-Doped Dichroic Mirrors



Yb-Doped Dichroic Mirrors

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

-

1

+

£800⁰⁰

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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

SPECIFICATIONS

General

Type:

High Power Dichroic Window

Physical & Mechanical Properties

50.00 +0.0/-0.10	Diameter (mm):
45.00	Clear Aperture CA (mm):
3.00 ±0.20	Thickness (mm):
Fine Ground	Edges:
30' ±10'	Wedge Angle (arcmin):
Optical Properties	
940nm/1030nm	Design Wavelength DWL (nm):
Fused Silica (Corning 7980)	Substrate: ☐
0 - 5	Angle of Incidence (°):
S1: HR 1030nm ± 5nm, AR 940 ± 5nm S2: AR 940nm & 1030nm ± 5nm	Coating:
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	Coating Specification:
1.458	Index of Refraction (n _d):
λ/10	Surface Flatness (P-V):
10-5	Surface Quality:
> 20 J/cm² @ 10ns pulses @5 kHz PRF 1MW/cm² 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) <±100fs²
- 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 <±100fs² from 1030nm – 1080nm, making them useful for ultrafast and nonlinear applications including multi-photon microscopy.