

TECHSPEC[®] 515, 1030nm, 50.8mm Dia., Dual Band Low GDD Mirror



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S\$1,008^{.00}

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General

Type:
Laser Mirror

Typical Applications:
Beam transport of 1st and 2nd harmonic of Yb:doped lasers

Physical & Mechanical Properties

Parallelism (arcmin):
<3

>86	Clear Aperture (%):
Commercial Polish	Back Surface:
50.80 +0/-0.1	Diameter (mm):
9.53 ±0.20	Thickness (mm):
Optical Properties	
10-5	Surface Quality:
R _s >99.9% @500-540nm R _p >99.8% @507-527nm; R _s >99.9% @1000-1070nm R _p >99.8% @1005-1070nm	Coating Specification:
<35fs ² @ 500 - 540nm (s-pol) <50fs ² @ 510 - 525nm (p-pol) <20fs ² @ 1000 - 1070nm (s-pol) <40fs ² @ 1010 - 1055nm (p-pol)	GDD Specification:
500 - 540, 1000 - 1070	Wavelength Range (nm):
<λ/6 @ 632.8nm over 40mm aperture	Surface Flatness (P-V):
S1: Dielectric S2: Stress-compensating	Coating Type:
Ultrafast (500-540, 1000-1070nm)	Coating:
515, 1030	Design Wavelength DWL (nm):
45	Angle of Incidence (°):
Fused Silica (Corning 7980)	Substrate: ☐

Regulatory Compliance	
View	Certificate of Conformance:

Product Details

- High Reflectivity & Low Group Delay Dispersion (GDD) for Ultrafast Beam Steering
 - Ion-Beam Sputtered (IBS) Coatings Minimize Scatter and Absorption Losses
 - Near-Zero GDD for Both the First and Second Harmonics of Ti:sapphire and Yb-doped Lasers
- TECHSPEC® Dual Band Low GDD Ultrafast Mirrors maintain high reflectivity and near-zero group delay dispersion over both the first and second harmonic of Ti:sapphire and Yb-doped lasers. Utilizing Ion-Beam Sputtered Coating Technology, these mirrors minimize scatter and absorption loss commonly observed when using other traditional coating application processes. TECHSPEC® Dual Band Low GDD Ultrafast Mirrors are often used in beam steering applications as they will maintain ultrashort pulse durations that can be difficult to preserve when using more conventional laser mirrors. These mirrors are ideal for second-harmonic generation (SHG) microscopy and spectroscopy applications as well as for frequency resolved optical gating (FROG).

Compatible Mounts