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TECHSPEC® 400, 800nm, 12.7mm Dia., Ultrafast Dual Band Mirror



Stock #24-321 **20+ In Stock**

⊖ 1 ⊕ **\$249^{.20}**

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| Volume Pricing | |
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| Qty 1-5 | \$249.20 each |
| Qty 6-9 | \$221.20 each |
| Qty 10+ | \$194.60 each |
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Product Downloads

General

Laser Mirror **Type:**

Typical Applications:
Beam transport of 1st and 2nd harmonic of
Ti:Sapphire lasers

Physical & Mechanical Properties

6.35 ±0.10 **Thickness (mm):**

| | |
|-------------------|------------------------------|
| 12.70 +0/-0.1 | Diameter (mm): |
| >86 | Clear Aperture (%): |
| Commercial Polish | Back Surface: |
| <3 | Parallelism (arcmin): |

Optical Properties

| | |
|--|------------------------------------|
| Fused Silica (Coming 7980) | Substrate: □ |
| 10-5 | Surface Quality: |
| 45 | Angle of Incidence (°): |
| IBS (385-415, 770-830nm) | Coating: |
| 400, 800 | Design Wavelength DWL (nm): |
| 385 - 415, 770 - 830 | Wavelength Range (nm): |
| λ/6 | Surface Flatness (P-V): |
| R _s >99.9% @385-415nm R _p >99.8% @395-415nm R _s >99.9% @770-830nm R _p >99.9% @770-820nm | Coating Specification: |
| S1: Dielectric S2: Stress-compensating | Coating Type: |
| <35fs ² @ 385 - 415nm (s-pol) <50fs ² @ 395 - 415nm (p-pol) <20fs ² @ 770 - 830nm (s-pol) <40fs ² @ 770 - 810nm (p-pol) | GDD Specification: |

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).