

TECHSPEC<sup>®</sup> 25mm Dia. 515nm 45°, Yb:YAG Laser Line Mirror



Yb:YAG ZERODUR Laser Line Mirrors

Stock **#26-887** **6 In Stock**

-

1

+

C\$319<sup>20</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | C\$319.20 each                |
| Qty 6-25       | C\$287.00 each                |
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SPECIFICATIONS

General

Type:

Laser Mirror

Physical & Mechanical Properties

Diameter (mm):

|                                                                                                                           |                             |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| 25.00 +0.00/-0.20                                                                                                         |                             |
| 90                                                                                                                        | Clear Aperture (%):         |
| 30                                                                                                                        | Parallelism (arcsec):       |
| 4.00 +/-0.2                                                                                                               | Thickness (mm):             |
| Optical Properties                                                                                                        |                             |
| 515                                                                                                                       | Design Wavelength DWL (nm): |
| 509 - 520                                                                                                                 | Wavelength Range (nm):      |
| ZERODUR®                                                                                                                  | Substrate: <div></div>      |
| 45                                                                                                                        | Angle of Incidence (°):     |
| 99.8                                                                                                                      | Reflection at DWL (%):      |
| Laser Mirror (515nm)                                                                                                      | Coating:                    |
| Coating Specification:<br>R <sub>abs</sub> > 99.80% @ 515nm @ 45° AOI R <sub>avg</sub> > 99.5%<br>@ 509 - 520nm @ 45° AOI |                             |
| Dielectric                                                                                                                | Coating Type:               |
| N/10                                                                                                                      | Surface Flatness (P-V):     |
| 20-10                                                                                                                     | Surface Quality:            |
| Damage Threshold, By Design: <div></div><br>15 J/cm² @ 515nm, 20ns, 20Hz                                                  |                             |
| Regulatory Compliance                                                                                                     |                             |
| View                                                                                                                      | Certificate of Conformance: |

## PRODUCT DETAILS

- ZERODUR® Substrates Provide Near Zero Thermal Expansion
- >99.8% Reflectivity at Yb:YAG Harmonic Frequencies
- High Laser Damage Threshold Specifications

Yb:YAG ZERODUR Laser Line Mirrors combine the extremely low coefficient of thermal expansion of ZERODUR® substrates with the highly reflective TECHSPEC® Yb:YAG mirror coating. Featuring a coefficient of thermal expansion (CTE) of ±0.10 x 10-6/°C these mirrors are great for applications where the optics will be exposed to fluctuating temperatures. The Yb:YAG coating offers a high laser damage threshold compatible with both pulsed and continuous wave lasers. Yb:YAG ZERODUR Laser Line Mirrors are designed with precision polished substrates with N/10 flatness and 20-10 surface quality. These mirrors are ideal for laser applications that include laser ablation, welding, drilling, cutting, and sintering.