

TECHSPEC®

10mm Dia. 515nm 45°, Yb:YAG Laser Line Mirror



Yb:YAG ZERODUR Laser Line Mirrors

Stock **#26-884** 10 In Stock

-

1

+

£151<sup>20</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | £151.20 each                  |
| Qty 6-25       | £132.00 each                  |
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Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Laser Mirror

Physical & Mechanical Properties

Thickness (mm):

2.00 +/-0.2

Diameter (mm):

10.00 +0.00/-0.20

|                                                                                                                        |                             |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| 90                                                                                                                     | Clear Aperture (%):         |
| 30                                                                                                                     | Parallelism (arcsec):       |
| Optical Properties                                                                                                     |                             |
| ZERODUR®                                                                                                               | Substrate: <div></div>      |
| 20-10                                                                                                                  | Surface Quality:            |
| 45                                                                                                                     | Angle of Incidence (°):     |
| Laser Mirror (515nm)                                                                                                   | Coating:                    |
| 515                                                                                                                    | Design Wavelength DWL (nm): |
| 99.8                                                                                                                   | Reflection at DWL (%):      |
| 509 - 520                                                                                                              | Wavelength Range (nm):      |
| λ/10                                                                                                                   | Surface Flatness (P-V):     |
| Coating Specification:<br>R <sub>abs</sub> > 99.80% @ 515nm @ 45° AOI R <sub>avg</sub> > 99.5% @ 509 - 520nm @ 45° AOI |                             |
| Dielectric                                                                                                             | Coating Type:               |
| 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 λ/10 flatness and 20-10 surface quality. These mirrors are ideal for laser applications that include laser ablation, welding, drilling, cutting, and sintering.