

**TECHSPEC® 20mm Dia. 515nm 45°, Yb:YAG Laser Line Mirror**



Yb:YAG ZERODUR Laser Line Mirrors

Stock #26-886 **14 In Stock**

⊖ 1 ⊕ A\$347<sup>00</sup>

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Qty 1-5	A\$347.20 each
Qty 6-25	A\$304.00 each
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**General**

Laser Mirror **Type:**

**Physical & Mechanical Properties**

3.00 +/-0.2 **Thickness (mm):**

20.00 +0.00/-0.20 **Diameter (mm):**

**Clear Aperture (%):**

90

Parallelism (arcsec):

30

## Optical Properties

Substrate:

ZERODUR®

Surface Quality:

20-10

Angle of Incidence (°):

45

Coating:

Laser Mirror (515nm)

Design Wavelength DWL (nm):

515

Reflection at DWL (%):

99.8

Wavelength Range (nm):

509 - 520

Surface Flatness (P-V):

λ/10

Coating Specification:

R<sub>abs</sub> > 99.80% @ 515nm @ 45° AOI R<sub>avg</sub> > 99.5% @ 509 - 520nm @ 45° AOI

Coating Type:

Dielectric

Damage Threshold, By Design:

15 J/cm<sup>2</sup> @ 515nm, 20ns, 20Hz

## Regulatory Compliance

Certificate of Conformance:

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## 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  $\pm 0.10 \times 10^{-6}/^{\circ}\text{C}$  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.