

**TECHSPEC® 10mm Dia. 1030nm 45°, Yb:YAG Laser Line Mirror**



Yb:YAG ZERODUR Laser Line Mirrors

Stock **#26-894** **9 In Stock**

⊖ 1 ⊕ A\$302<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-5	A\$302.40 each
Qty 6-25	A\$264.00 each
Need More?	<a href="#">Request Quote</a>

Product Downloads

**General**

Laser Mirror **Type:**

**Physical & Mechanical Properties**

2.00 +/-0.2 **Thickness (mm):**

10.00 +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 (1030nm)

Design Wavelength DWL (nm):

1030

Reflection at DWL (%):

99.8

Wavelength Range (nm):

1020 - 1040

Surface Flatness (P-V):

λ/10

Coating Specification:

R<sub>abs</sub> > 99.80% @ 1030nm @ 45° AOI R<sub>avg</sub> > 99.5%  
@ 1020 - 1040nm @ 45° AOI

Coating Type:

Dielectric

Damage Threshold, By Design:

20 J/cm<sup>2</sup> @ 1030nm, 20ns, 20Hz

## Regulatory Compliance

Certificate of Conformance:

[View](#)

## 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.