

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



Yb:YAG ZERODUR Laser Line Mirrors

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

⊖ 1 ⊕ **\$264⁰⁰**

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Qty 1-5	\$264.60 each
Qty 6-25	\$231.00 each
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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_{abs} > 99.80% @ 1030nm @ 45° AOI R_{avg} > 99.5%
@ 1020 - 1040nm @ 45° AOI

Coating Type:

Dielectric

Damage Threshold, By Design:

20 J/cm² @ 1030nm, 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.