

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



Yb:YAG ZERODUR Laser Line Mirrors

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1

+

₹13,624

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General

Laser Mirror

Type:

Physical & Mechanical Properties

10.00 +0.00/-0.20

Diameter (mm):

90

Clear Aperture (%):

30

Parallelism (arcsec):

2.00 +/-0.2	Thickness (mm):
Optical Properties	
515	Design Wavelength DWL (nm):
509 - 520	Wavelength Range (nm):
ZERODUR®	Substrate: ☐
45	Angle of Incidence (°):
99.8	Reflection at DWL (%):
Laser Mirror (515nm)	Coating:
Coating Specification: R _{abs} > 99.80% @ 515nm @ 45° AOI R _{avg} > 99.5% @ 509 - 520nm @ 45° AOI	
Dielectric	Coating Type:
λ/10	Surface Flatness (P-V):
20-10	Surface Quality:
Damage Threshold, By Design: ☐ 15 J/cm² @ 515nm, 20ns, 20Hz	

Regulatory Compliance	
View	Certificate of Conformance:
United States	Country of Origin:
Edmund Optics India Private Limited	Imported By:

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.