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

Yb:YAG ZERODUR Laser Line Mirrors

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SPECIFICATIONS

General

Type:

Laser Mirror

Physical & Mechanical Properties

Diameter (mm):

10.00 +0.00/-0.20

Clear Aperture (%):
90

Parallelism (arcsec):
30

Thickness (mm):
2.00 +/-0.2

Optical Properties

Design Wavelength DWL (nm):
1030

Wavelength Range (nm):
1020 - 1040

Substrate:
ZERODUR®

Angle of Incidence (°):
45

Reflection at DWL (%):
99.8

Coating:
Laser Mirror (1030nm)

Coating Specification:
R_{abs} > 99.80% @ 1030nm @ 45° AOI R_{avg} > 99.5% @ 1020 - 1040nm @ 45° AOI

Coating Type:
Dielectric

Surface Flatness (P-V):
λ/10

Surface Quality:
20-10

Damage Threshold, By Design:
20 J/cm^2 @ 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 ±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.