

TECHSPEC<sup>®</sup> 15mm Dia. 1030nm 45°, Yb:YAG Laser Line Mirror



Yb:YAG ZERODUR Laser Line Mirrors

Stock **#26-895** 13 In Stock

-

1

+

£161<sup>37</sup>

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| Qty 1+         | £161.97 each                  |
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SPECIFICATIONS

General

Type:

Laser Mirror

Physical & Mechanical Properties

Diameter (mm):

|                                                                                                                              |                                 |
|------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 15.00 +0.00/-0.20                                                                                                            |                                 |
| 90                                                                                                                           | Clear Aperture (%):             |
| 30                                                                                                                           | Parallelism (arcsec):           |
| 3.00 +/-0.2                                                                                                                  | Thickness (mm):                 |
| Optical Properties                                                                                                           |                                 |
| 1030                                                                                                                         | Design Wavelength DWL (nm):     |
| 1020 - 1040                                                                                                                  | Wavelength Range (nm):          |
| ZERODUR®                                                                                                                     | Substrate: <input type="text"/> |
| 45                                                                                                                           | Angle of Incidence (°):         |
| 99.8                                                                                                                         | Reflection at DWL (%):          |
| Laser Mirror (1030nm)                                                                                                        | Coating:                        |
| Coating Specification:<br>R <sub>abs</sub> > 99.80% @ 1030nm @ 45° AOI R <sub>avg</sub> > 99.5%<br>@ 1020 - 1040nm @ 45° AOI |                                 |
| Dielectric                                                                                                                   | Coating Type:                   |
| λ/10                                                                                                                         | Surface Flatness (P-V):         |
| 20-10                                                                                                                        | Surface Quality:                |
| Damage Threshold, By Design: <input type="text"/><br>20 J/cm² @ 1030nm, 20ns, 20Hz                                           |                                 |
| Regulatory Compliance                                                                                                        |                                 |
| <a href="#">View</a>                                                                                                         | Certificate of Conformance:     |

## 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<sup>-6</sup>/°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.