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TECHSPEC® 19.1mm Dia. 1030nm 45°, Yb:YAG Laser Line Mirror

TECHSPEC® Yb:YAG Laser Line Mirrors

Stock **#11-293** **14 In Stock**

- 1 + **€160**.00

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Volume Pricing	
Qty 1-5	**€160,00** each
Qty 6-25	**€145,00** each
Qty 26-49	**€128,00** each
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Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Laser Mirror

Physical & Mechanical Properties

Parallelism (arcmin):

<3

Clear Aperture (%):

90

Back Surface:
Commercial Polish

Diameter (mm):
19.10 +0.00/-0.10

Thickness (mm):
6.35 ±0.20

Optical Properties

Surface Quality:
10-5

Reflection at DWL (%):
99.8

Coating Specification:
R_{abs} >99.8% @ 1030nm
R_{avg} >99.5% @ 1020 - 1040nm

Wavelength Range (nm):
1020 - 1040

Surface Flatness (P-V):
λ/10

Coating Type:
Dielectric

Coating:
Laser Mirror (1020-1040nm)

Design Wavelength DWL (nm):
1030

Angle of Incidence (°):
45

Substrate:
Fused Silica (Corning 7980)

Damage Threshold, By Design:
20 J/cm^2 @ 1030nm, 20ns, 20Hz

Regulatory Compliance

RoHS 2015:
Compliant

Reach 209:
Compliant

Certificate of Conformance:
View

Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our custom manufacturing capabilities or submit an inquiry here.

Product Details

- >99.8% Reflectivity at Yb:YAG Harmonic Frequencies
- Guaranteed High Laser Damage Thresholds
- 10-5 Surface Quality for Reduced Scatter in Laser Applications
- **TECHSPEC® Laser Mirror Substrates** and **TECHSPEC® Nd:YAG Laser Line Mirrors** Also Available

TECHSPEC® Yb:YAG Laser Line Mirrors are designed to meet the demanding requirements of Ytterbium doped fiber (Yb:doped fiber) and thin-disk laser systems. These mirrors feature laser grade substrates with λ/10 surface flatness and 10-5 surface quality to minimize scattering effects. The durable dielectric coatings are designed for high reflectivity at their design wavelengths as well as high damage thresholds at both continuous wave and pulsed laser operating conditions. TECHSPEC Yb:YAG Laser Line Mirrors are ideal for laser applications that include laser ablation, welding, drilling, cutting, and sintering. Dielectric Yb:YAG mirror coatings for applications which require 343nm, 515nm, and 1030nm are available.

Note: Contact us for customizable wavelengths, sizes, and varying AOI versions.

Compatible Mounts

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