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**TECHSPEC® 25.4mm Dia. 1064nm, Nd:YAG Laser Line Beam Sampler**



TECHSPEC® Nd:YAG Laser Line Beam Samplers

Stock **#39-017** [CONTACT US](#)

⊖ 1 ⊕ **S\$245<sup>00</sup>**

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**General**

Beam Sampler **Type:**

**Physical & Mechanical Properties**

90 **Clear Aperture (%):**

25.40 +0.00/-0.10 **Diameter (mm):**

Parallelism (arcmin):

<3

Thickness (mm):

6.35 ±0.20

## Optical Properties

Angle of Incidence (°):

0 ±5

Coating:

Laser V-Coat (1064nm)

Coating Specification:

$R_{\text{abs}} < 0.25\%$  @ 1064nm

Design Wavelength DWL (nm):

1064

Index of Refraction ( $n_d$ ):

1.458

Substrate:

[Fused Silica](#) (Corning 7980)

Surface Flatness (P-V):

$\lambda/10$

Surface Quality:

10-5

Damage Threshold, By Design:

15 J/cm<sup>2</sup> @ 1064nm, 20ns, 20Hz

## Regulatory Compliance

RoHS 2015:

[Compliant](#)

Reach 209:

[Compliant](#)

Certificate of Conformance:

[View](#)

## Product Details

- Uncoated First Surface Provides Fresnel Reflection
- High Laser Damage Threshold Coating on One Surface
- 10-5 Surface Quality

TECHSPEC® Nd:YAG Laser Line Beam Samplers are used to split a small portion of an incident laser beam through Fresnel reflection provided by the uncoated surface for beam monitoring purposes. These beam samplers feature high performance physical properties for minimum effects on the passed through beam, including 10-5 surface quality and  $\lambda/10$  surface flatness. An anti-reflection coating with a high damage threshold applied on the second surface helps limit ghost reflections. TECHSPEC Nd:YAG Laser Line Beam Samplers are made of UV Fused Silica, providing excellent transmission from the UV to the IR and a low coefficient of thermal expansion. Beam samplers with anti-reflection laser line coatings for 266nm, 355nm, 532nm, and 1064nm wavelengths are available.

**Note:** TECHSPEC Nd:YAG Laser Line Beam Samplers can be used with [Laser Measurement products](#) to monitor beam properties, such as beam power and beam profile, in real time.

## Technical Information



Laser Line Beam Sampler

## Compatible Mounts