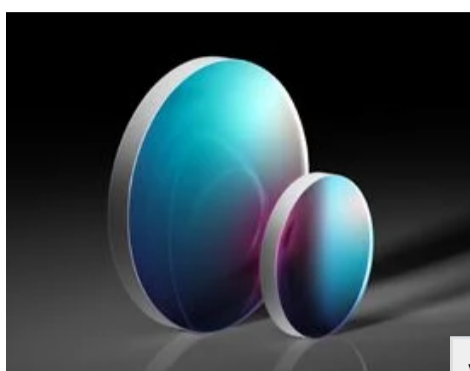


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TECHSPEC®

12.7mm Dia., 1mm Thick, 355nm, Nd:YAG Laser Line Beam Sampler



TECHSPEC® Thin Nd:YAG Laser Line Beam Samplers

Stock #29-011 **10 In Stock**

1 **£108^{.00}**

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Volume Pricing	
Qty 1-5	£108.00 each
Qty 6-25	£97.60 each
Qty 26-49	£87.20 each
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Product Downloads	
STEP:step	Curve:pdf
PDF Drawing:pdf	IGES:igs
eDrawing:eprt	
EO Spec Sheet	Download All

General

Type: Beam Sampler

Physical & Mechanical Properties

Thickness (mm): 1.00 ±0.10	Diameter (mm): 12.70 +0.00/-0.10
Clear Aperture (%): 90	Parallelism (arcmin): <0.50

Optical Properties

Substrate: Fused Silica (Corning 7980)	Index of Refraction (n_d): 1.458
Surface Quality: 20-10	Angle of Incidence (°): 0 ±5
Coating: Laser V-Coat (355nm)	Design Wavelength DWL (nm): 355
Coating Specification: R _{abs} <0.25% @ 355nm @ 0 ±5° AOI	Damage Threshold, By Design: 7.5 J/cm ² @ 355nm, 20ns, 20Hz
Transmitted Wavefront Distortion: 0.167 @ 632.8nm	

Regulatory Compliance

Product Details

- Thin 1mm Design for Space and Weight Constrained Applications
- Uncoated First Surface Provides Fresnel Reflection
- AR Coated Second Surface Provides High Transmission
- High Laser Damage Threshold to Prevent Laser Ablation

TECHSPEC® Thin Nd:YAG Laser Line Beam Samplers are designed to isolate a small portion of incident beams via Fresnel reflection and anti-reflection properties for beam monitoring purposes. These beam samplers are designed with a 1mm thickness to facilitate applications where space and weight constraints are critical. Additionally, an anti-reflection (AR) coating with a high damage threshold on surface two maximizes transmission and reduces ghost reflections. These second surface coated beam samplers are available in laser line coatings including 266nm, 355nm, 532nm, and 1064nm wavelengths. TECHSPEC® Thin Nd:YAG Laser Line Beam Samplers feature a UV Fused Silica substrate which provides excellent transmission from the UV to the IR and a low coefficient of thermal expansion. These beam samplers are ideal for applications where monitoring beam power, wavefront distortion, and optical losses are required.

Note: TECHSPEC® Thin 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

Related Products



Laser Measurement and Electronics



Nd:YAG Laser Line Beam Samplers















Ultrafast Harmonic Separators



Nd:YAG Laser Output Couplers

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
MORE+	12.7mm Optic Dia., Optic Mount	Fixed		#64-556	£26.20 Request Quote	11 In Stock <input type="text" value="1"/>
MORE+	5.0 - 25.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-529	£81.60 Request Quote	20+ In Stock <input type="text" value="1"/>
MORE+	7.0 - 40.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-676	£84.80 Request Quote	20+ In Stock <input type="text" value="1"/>
MORE+	10.0 - 60.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-530	£86.40 Request Quote	CONTACT US <input type="text" value="1"/>
MORE+	7.0 - 67.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-669	£92.80 Request Quote	20+ In Stock <input type="text" value="1"/>

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MORE+ 	4.0 - 36.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-077	£125.60 Request Quote	5 In Stock <input type="text" value="1"/> 
MORE+ 	12.5/12.7mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-955	£208.80 Request Quote	5 In Stock <input type="text" value="1"/> 
MORE+ 	5.0 - 100.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-078	£328.00 Request Quote	CONTACT US <input type="text" value="1"/> 
MORE+ 	12.5/12.7mm Optic Dia., Precision Gimbal Mount	Adjustable - Gimbal		#84-640	£336.80 Request Quote	7 In Stock <input type="text" value="1"/> 
MORE+ 	12.5/12.7mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-958	£343.20 Request Quote	5 In Stock <input type="text" value="1"/> 

Check out our full selection of mounts [here](#).

Resources

Media Type

- Application Note
- Technical Tool
- Published Article
- Glossary
- Video
- FAQ
- Scientific Paper

APPLICATION NOTE

Anti-Reflection (AR) Coatings

APPLICATION NOTE

An Introduction to Optical Coatings

TECHNICAL TOOL

Gaussian Beams Calculator

APPLICATION NOTE

Homogeneity and Scatter from Inclusions and Bubbles

APPLICATION NOTE

Thermal Properties of Optical Substrates

APPLICATION NOTE

Understanding Surface Roughness

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