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TECHSPEC®

19.1mm Dia., 100nm

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Select Your Country/Region: European Union

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λ/10 Ultra-Low Reflectivity Windows

Stock #11-277 **CLEARANCE** 20+ In Stock

1

€99^{,95}

ADD TO CART

Volume Pricing

Qty 1+	€99,95 each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

- STEP:step
- Curve:pdf
- PDF Drawing:pdf
- IGES:igs
- eDrawing:eprt
- EO Spec Sheet
- [Download All](#)

General

Type: Laser Line Window

Physical & Mechanical Properties

Clear Aperture CA (mm):	17.19	Diameter (mm):	19.10 +0.00/-0.10
Thickness (mm):	6.35 ±0.20	Parallelism (arcmin):	<3
Bevel:	Protective as needed	Clear Aperture (%):	90
Edges:	Fine Ground	Poisson's Ratio:	0.16
Young's Modulus (GPa):	73	Knoop Hardness (kg/mm ²):	522.00

Optical Properties

Angle of Incidence (°):	0	Coating:	Laser Ultra V-Coat (1064nm)
Design Wavelength DWL (nm):	1064	Substrate: i	Fused Silica (Corning 7980)
Index of Refraction (n _d):	1.458	Surface Quality:	10-5
Abbe Number (v _d):	67.8	Coating Specification:	R _{abs} <0.10% @ 1064nm
Surface Flatness (P-V):	λ/10	Damage Threshold, By Design: i	15 J/cm ² @ 1064nm, 20ns, 20Hz

Material Properties

Density (g/cm ³):	2.20	Coefficient of Thermal:	0.52 (+5 to +35°C) 0.57 (0 to
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Expansion CTE +200°C
(10⁻⁶/°C): 0.48 (-100 to +200°C)

Fused Silica Grade: 7980 0F

Regulatory Compliance

RoHS 2015: **Compliant**

Certificate of Conformance: **View**

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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](#).

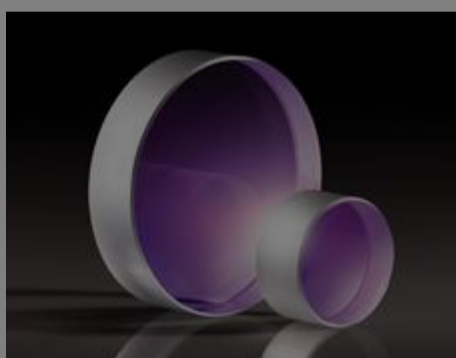
Product Details

- <0.1% Reflectivity Laser Line Coatings
- Nd:YAG and Yb:YAG Wavelength Options
- Reduce Typical Laser System Losses by 3% (Compared to a 0.25% Specified System with 10 Transmissive Optics)
- Increased Transmission Reduces Back Reflections, Ghost Images, and Stray Light

TECHSPEC® λ/10 Ultra-Low Reflectivity Windows feature anti-reflection coatings with reflection lower than 0.1% at the design wavelength. These windows feature high quality fused silica substrates with λ/10 surface flatness and 10-5 surface quality to minimize scatter. With ultra-low reflectivity and high damage thresholds, these windows are ideal for integration into laser systems to virtually eliminate surface reflections. TECHSPEC λ/10 Ultra-Low Reflectivity Windows are available in a range of laser V-Coats from 266nm to 1064nm for compatibility with Nd:YAG and Yb:YAG laser sources. Imperial diameter sizes from 12.7mm to 50.8mm are available.

Technical Information

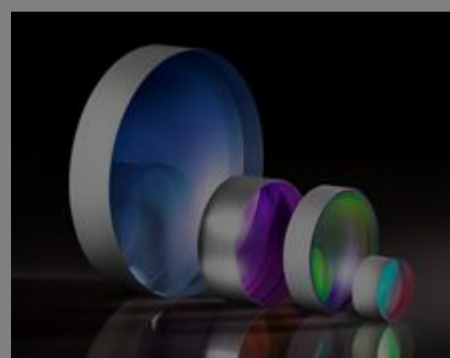
Related Products



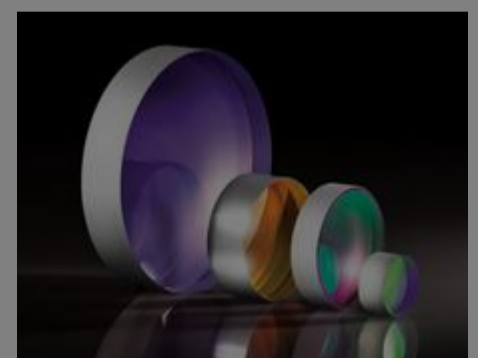
λ/10 Laser Line Coated Windows



Uncoated Laser Window Substrates



Yb:YAG Laser Line Mirrors



Nd:YAG Laser Line Mirrors

Frequently Purchased Together

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#89-038 - 20.0mm Dia.
x 20.0mm FL, 1064nm
PCX Lens
€61,00

Qty



















Silica Window
€158,00

Qty

Optic Dia., 6.35mm
Coated Laser
Window Substrate
€136,00

Qty

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	 2.0 - 35.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#03-668	€63,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	 9.5 - 73.0mm Optic Dia., Three-Screw Adjustable Ring Mount	Fixed		#36-605	€83,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	 5.0 - 25.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-529	€102,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	 7.0 - 40.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-676	€106,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	 10.0 - 60.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-530	€108,00 Request Quote	CONTACT US <input type="text" value="1"/>
	 7.0 - 67.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-669	€116,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	 8.0 - 118.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-666	€120,00 Request Quote	20+ In Stock <input type="text" value="1"/>
	 4.0 - 36.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-077	€157,00 Request Quote	5 In Stock <input type="text" value="1"/>
	 5.0 - 100.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-078	€410,00 Request Quote	CONTACT US <input type="text" value="1"/>

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

Resources

Media Type

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

APPLICATION NOTE

Anti-Reflection

APPLICATION NOTE

Ap

TECHNICAL TOOL

Gaussian
Beams
Calculator

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APPLICATION NOTE

Understanding
Surface
Roughness

APPLICATION NOTE

Common Laser
Optics
Materials

APPLICATION NOTE

Importance of
Beam
Diameter on
Laser Damaa...

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