

TECHSPEC® 50.8mm Dia., 1030nm, $\lambda/10$ Ultra-Low Reflectivity Window



$\lambda/10$ Ultra-Low Reflectivity Windows

Stock #11-274 CLEARANCE 1 In Stock

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1

+

₹17,396

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Qty 1+	₹17,396 each
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General

Type:

Laser Line Window

Physical & Mechanical Properties

Clear Aperture CA (mm):

45.72

Diameter (mm):

50.80 +0.00/-0.10

Thickness (mm):

9.53 ±0.20

<3	Parallelism (arcmin):
Protective as needed	Bevel:
90	Clear Aperture (%):
Fine Ground	Edges:
0.16	Poisson's Ratio:
73	Young's Modulus (GPa):
522.00	Knoop Hardness (kg/mm²):

Optical Properties	
0	Angle of Incidence (°):
Laser Ultra V-Coat (1030nm)	Coating:
1030	Design Wavelength DWL (nm):
Fused Silica (Corning 7980)	Substrate:
1.458	Index of Refraction (n _d):
10-5	Surface Quality:
67.8	Abbe Number (v _d):
R _{abs} <0.10% @ 1030nm	Coating Specification:
λ/10	Surface Flatness (P-V):
15 J/cm² @ 1030nm, 20ns, 20Hz	Damage Threshold, By Design:

Material Properties	
2.20	Density (g/cm³):
0.52 (+5 to +35°C) 0.57 (0 to +200°C) 0.48 (-100 to +200°C)	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):
7980 0F	Fused Silica Grade:

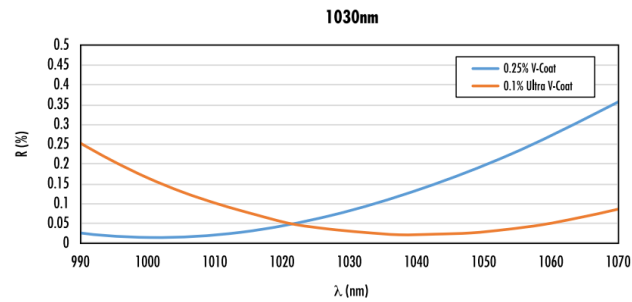
Regulatory Compliance	
Compliant	RoHS 2015:
Compliant	Reach 219:
View	Certificate of Conformance:
United States	Country of Origin:
Edmund Optics India Private Limited	Imported By:

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



Custom

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](#).

Compatible Mounts