

**TECHSPEC® 50.8mm Dia., 532nm,  $\lambda/10$  Ultra-Low Reflectivity Window**



$\lambda/10$  Ultra-Low Reflectivity Windows

Stock #11-266 **CLEARANCE** 4 In Stock

⊖ 1 ⊕ C\$296<sup>00</sup>

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**General**

Laser Line Window **Type:**

**Physical & Mechanical Properties**

45.72 **Clear Aperture CA (mm):**

50.80 +0.00/-0.10 **Diameter (mm):**

9.53 ±0.20 **Thickness (mm):**

<3	<b>Parallelism (arcmin):</b>
Protective as needed	<b>Bevel:</b>
90	<b>Clear Aperture (%):</b>
Fine Ground	<b>Edges:</b>
0.16	<b>Poisson's Ratio:</b>
73	<b>Young's Modulus (GPa):</b>
522.00	<b>Knoop Hardness (kg/mm<sup>2</sup>):</b>

## Optical Properties

0	<b>Angle of Incidence (°):</b>
Laser Ultra V-Coat (532nm)	<b>Coating:</b>
532	<b>Design Wavelength DWL (nm):</b>
<a href="#">Fused Silica</a> (Corning 7980)	<b>Substrate:</b> <input type="checkbox"/>
1.458	<b>Index of Refraction (n<sub>d</sub>):</b>
10-5	<b>Surface Quality:</b>
67.8	<b>Abbe Number (v<sub>d</sub>):</b>
R <sub>abs</sub> <0.10% @ 532nm	<b>Coating Specification:</b>
λ/10	<b>Surface Flatness (P-V):</b>
10 J/cm <sup>2</sup> @ 532nm, 20ns, 20Hz	<b>Damage Threshold, By Design:</b>

## Material Properties

2.20	<b>Density (g/cm<sup>3</sup>):</b>
0.52 (+5 to +35°C) 0.57 (0 to +200°C) 0.48 (-100 to +200°C)	<b>Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):</b>
7980 0F	<b>Fused Silica Grade:</b>

## Regulatory Compliance

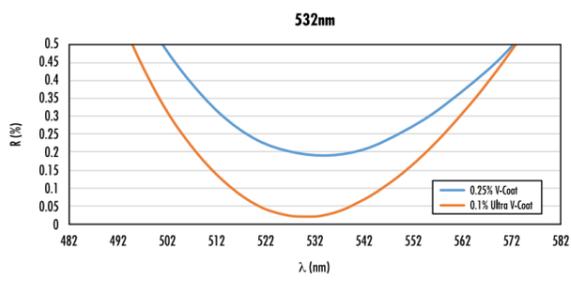
<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">Compliant</a>	<b>Reach 219:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>

## 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

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