

TECHSPEC® 50.8mm Dia., 515nm, $\lambda/10$ Ultra-Low Reflectivity Window



$\lambda/10$ Ultra-Low Reflectivity Windows

Stock #11-258 **CLEARANCE** 17 In Stock

⊖ 1 ⊕ £169⁰⁰

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Volume Pricing	
Qty 1+	£169.60 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Laser Line Window **Type:**

Physical & Mechanical Properties

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

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

Thickness (mm):

9.53 ±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/mm²):

522.00

Optical Properties

Angle of Incidence (°):

0

Coating:

Laser Ultra V-Coat (515nm)

Design Wavelength DWL (nm):

515

Substrate:

[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% @ 515nm

Surface Flatness (P-V):

λ/10

Damage Threshold, By Design:

10 J/cm² @ 515nm, 20ns, 20Hz

Material Properties

Density (g/cm³):

2.20

Coefficient of Thermal Expansion CTE (10⁻⁶/°C):

0.52 (+5 to +35°C)

0.57 (0 to +200°C)

0.48 (-100 to +200°C)

Fused Silica Grade:

7980 0F

Regulatory Compliance

RoHS 2015:

[Compliant](#)

Reach 219:

[Compliant](#)

Certificate of Conformance:

[View](#)

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](#).

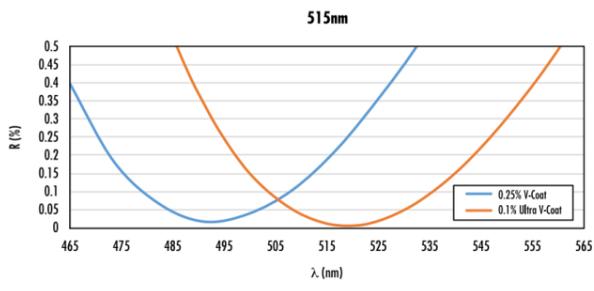
Product Details

- <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 N10 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



Compatible Mounts