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TECHSPEC® 50mm Dia. Uncoated, $\lambda/20$ Fused Silica Window



Uncoated $\lambda/20$ Fused Silica Window

Stock #65-865 [CONTACT US](#)

⊖ 1 ⊕ A\$436⁰⁰

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Volume Pricing	
Qty 1-5	A\$436.80 each
Qty 6-25	A\$393.60 each
Qty 26-49	A\$348.80 each
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Product Downloads

General

Laser Line Window **Type:**

Physical & Mechanical Properties

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

50.00 +0.00/-0.10 **Diameter (mm):**

3.00 ±0.10	Thickness (mm):
Protective as needed	Bevel:
90	Clear Aperture (%):
Fine Ground	Edges:
≤5	Parallelism (arcsec):
0.16	Poisson's Ratio:
73	Young's Modulus (GPa):
522.00	Knoop Hardness (kg/mm²):

Optical Properties

0	Angle of Incidence (°):
Uncoated	Coating:
Fused Silica Excimer Grade (Corning 7980 KrF)	Substrate: <input type="checkbox"/>
1.458	Index of Refraction (n_d):
10-5	Surface Quality:
λ/20	Transmitted Wavefront, P-V:
67.8	Abbe Number (v_d):
200 - 2200	Wavelength Range (nm):
5 J/cm ² @ 10ns	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 KrF 0A	Fused Silica Grade:

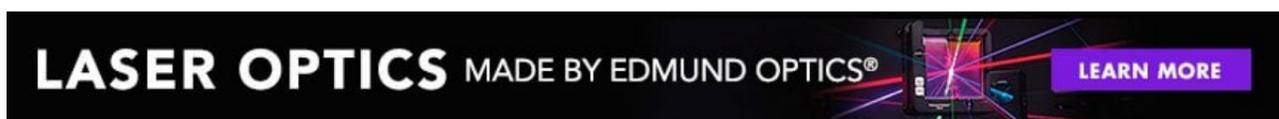
Regulatory Compliance

Compliant	RoHS 2015:
Compliant	REACH 201:
View	Certificate of Conformance:

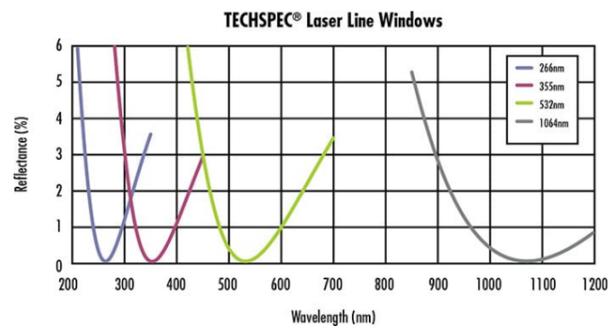
Product Details

- R < 0.25% for 266nm, 355nm, 532nm or 1064nm
- Low Auto-Fluorescence
- Damage Thresholds up to 10 J/cm² @ 10ns @ 1064nm

TECHSPEC® λ/20 High Power Laser Line Windows features a high efficiency, high damage threshold V-coating to maximize transmission at the design wavelength. Damage thresholds ranging from 2 - 10J/cm² allow easy integration into most Nd:YAG laser systems. The coating is deposited on a precision excimer grade UV grade fused silica substrate for excellent thermal stability, low wavefront distortion, and ultra-low auto-fluorescence. TECHSPEC® λ/20 High Power Laser Line Windows are available in diameters ranging from 5 to 50mm. For custom options or wedged versions, please contact our [Sales Department](#).



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
