

TECHSPEC[®] 50mm Dia. 1064nm Laser V-Coat, λ/20 Fused Silica Window



Uncoated λ/20 Fused Silica Window

Stock **#65-869** 20+ In Stock

-

1

+

£252⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-5	£252.00 each
Qty 6-25	£225.60 each
Qty 26-49	£200.00 each
Need More?	Request Quote

! Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Laser Line Window

Type:

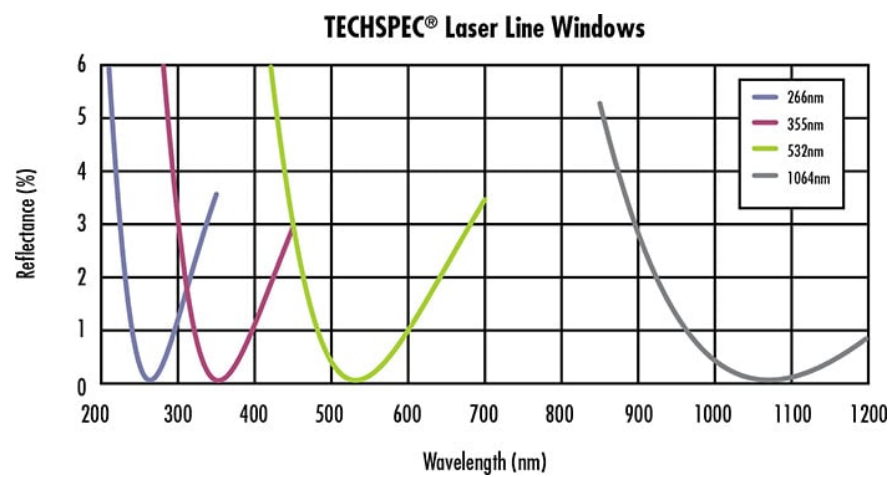
Physical & Mechanical Properties	
45.00	Clear Aperture CA (mm):
50.00 +0.00/-0.10	Diameter (mm):
3.00 ±0.10	Thickness (mm):
Protective as needed	Bevel:
90	Clear Aperture (%):
Fine Ground	Edges:
≤5	Parallelism (arcsec):
0.16	Poisson's Ratio:
73	Young's Modulus (GPa):
522.00	Knoop Hardness (kg/mm²):
Optical Properties	
0	Angle of Incidence (°):
Laser V-Coat (1064nm)	Coating:
1064	Design Wavelength DWL (nm):
Fused Silica Excimer Grade (Corning 7980 KrF)	Substrate: ☐
1.458	Index of Refraction (n _d):
10-5	Surface Quality:
λ/20	Transmitted Wavefront, P-V:
67.8	Abbe Number (v _d):
R _{abs} <0.25% @ 1064nm	Coating Specification:
10 J/cm² @ 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