

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



Uncoated  $\lambda$ /20 Fused Silica Window

Stock #65-865 10 In Stock

-

1

+

MRP ₹27,544

Price inclusive of all taxes

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | ₹27,544 each                  |
| Qty 6-25       | ₹24,819 each                  |
| Qty 26-49      | ₹21,994 each                  |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

General

Type:

Laser Line Window

Type of Window:

Glass

Physical & Mechanical Properties

Clear Aperture CA (mm):

|                      |                          |
|----------------------|--------------------------|
| 45.00                |                          |
|                      | Diameter (mm):           |
| 50.00 +0.00/-0.10    |                          |
|                      | Thickness (mm):          |
| 3.00 ±0.10           |                          |
|                      | Bevel:                   |
| Protective as needed |                          |
|                      | Clear Aperture (%):      |
| 90                   |                          |
|                      | Edges:                   |
| Fine Ground          |                          |
|                      | Parallelism (arcsec):    |
| ≤5                   |                          |
|                      | Poisson's Ratio:         |
| 0.16                 |                          |
|                      | Young's Modulus (GPa):   |
| 73                   |                          |
|                      | Knoop Hardness (kg/mm²): |
| 522.00               |                          |

Optical Properties

|                |                                                       |
|----------------|-------------------------------------------------------|
|                | Angle of Incidence (°):                               |
| 0              |                                                       |
|                | Coating:                                              |
| Uncoated       |                                                       |
|                | Substrate: <input type="checkbox"/>                   |
| Fused Silica   | Excimer Grade (Corning 7980 KrF)                      |
|                | Index of Refraction (n <sub>d</sub> ):                |
| 1.458          |                                                       |
|                | Surface Quality:                                      |
| 10-5           |                                                       |
|                | Transmitted Wavefront, P-V:                           |
| λ/20           |                                                       |
|                | Abbe Number (v <sub>d</sub> ):                        |
| 67.8           |                                                       |
|                | Wavelength Range (nm):                                |
| 200 - 2200     |                                                       |
|                | Damage Threshold, By Design: <input type="checkbox"/> |
| 5 J/cm² @ 10ns |                                                       |

Material Properties

|                       |                                                              |
|-----------------------|--------------------------------------------------------------|
|                       | Density (g/cm³):                                             |
| 2.20                  |                                                              |
|                       | Coefficient of Thermal Expansion CTE (10 <sup>-6</sup> /°C): |
| 0.52 (+5 to +35°C)    |                                                              |
| 0.57 (0 to +200°C)    |                                                              |
| 0.48 (-100 to +200°C) |                                                              |
|                       | Fused Silica Grade:                                          |
| 7980 KrF 0A           |                                                              |

Regulatory Compliance

|                                                                                                                                                                                                         |                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
|                                                                                                                                                                                                         | RoHS 2015:                  |
| Compliant                                                                                                                                                                                               |                             |
|                                                                                                                                                                                                         | REACH 201:                  |
| Compliant                                                                                                                                                                                               |                             |
|                                                                                                                                                                                                         | Certificate of Conformance: |
| View                                                                                                                                                                                                    |                             |
|                                                                                                                                                                                                         | Country of Origin:          |
| United States                                                                                                                                                                                           |                             |
|                                                                                                                                                                                                         | Imported By:                |
| Edmund Optics India Private Limited<br>267, Greystone Building, Second Floor,<br>6th Cross Rd, Binnamangala,<br>Stage 1, Indiranagar, Bengaluru,<br>Karnataka, India 560038<br>Phone: +91- 80-6845 0000 |                             |

## 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:

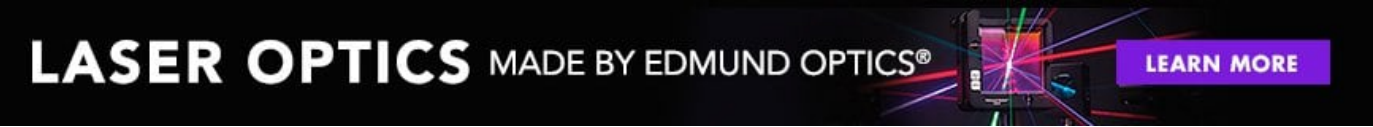
- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries

- Scalable production—from prototype to volume
- Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

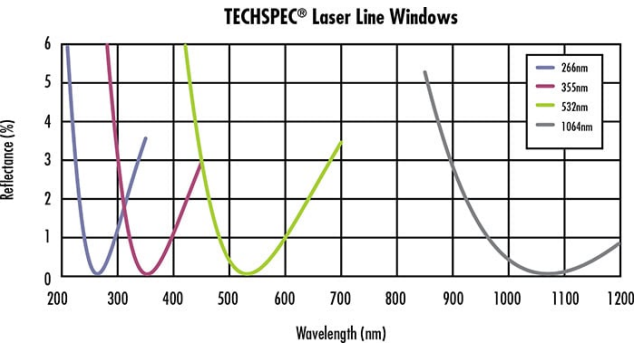
## Product Details

- R < 0.25% for 266nm, 355nm, 532nm or 1064nm
- Low Auto-Fluorescence
- Damage Thresholds up to 10 J/cm<sup>2</sup> @ 10ns @ 1064nm

TECHSPEC® λ20 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/cm<sup>2</sup> 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® λ20 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



## Compatible Mounts