

TECHSPEC<sup>®</sup> 50mm Dia. x 250mm FL VIS-NIR Coated, UV Plano-Convex Lens



UV Fused Silica Plano-Convex (PCX) Lenses



Stock **#67-242** [CONTACT US](#)

-

1

+

£255.00

ADD TO CART

Qty 1-5

£255.00

Qty 6+

£204.00

Volume Pricing

[Request Quote](#)

**ⓘ** Prices shown are exclusive of VAT/local taxes

Get Product Downloads



Diameter (mm):  
50.00 +0.0/-0.025

Effective Focal Length EFL (mm):

|                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 250.00 @587.6nm                                                                                                                                     |
| <b>Back Focal Length BFL (mm):</b><br>245.21                                                                                                        |
| <b>Coating:</b><br>VIS-NIR (400-1000nm)                                                                                                             |
| <b>Coating Specification:</b><br>R <sub>abs</sub> ≤0.25% @ 880nm<br>R <sub>avg</sub> ≤1.25% @ 400 - 870nm<br>R <sub>avg</sub> ≤1.25% @ 890 - 1000nm |
| <b>Substrate:</b> <br><a href="#">Fused Silica</a> (Corning 7980)  |
| <b>Surface Quality:</b><br>40-20                                                                                                                    |
| <b>Power (P-V) @ 632.8nm:</b><br>1.5λ                                                                                                               |
| <b>Irregularity (P-V) @ 632.8nm:</b><br>λ/4                                                                                                         |
| <b>Focal Length Tolerance (%):</b><br>±1                                                                                                            |
| <b>Centering (arcmin):</b><br><1                                                                                                                    |
| <b>Center Thickness CT (mm):</b><br>7.00 ±0.10                                                                                                      |
| <b>Edge Thickness ET (mm):</b><br>4.24                                                                                                              |
| <b>Radius R<sub>1</sub> (mm):</b><br>114.62                                                                                                         |
| <b>Clear Aperture CA (mm):</b><br>49                                                                                                                |
| <b>f/#:</b><br>5                                                                                                                                    |
| <b>Numerical Aperture NA:</b><br>0.10                                                                                                               |
| <b>Type:</b><br>Plano-Convex Lens                                                                                                                   |
| <b>Bevel:</b><br>Protective bevel as needed                                                                                                         |
| <b>Wavelength Range (nm):</b><br>400 - 1000                                                                                                         |
| <b>Damage Threshold, Reference:</b> <br>5 J/cm² @ 532nm, 10ns    |

## Regulatory Compliance

|                                                            |
|------------------------------------------------------------|
| <b>RoHS 2015:</b><br><a href="#">Compliant</a>             |
| <b>Certificate of Conformance:</b><br><a href="#">View</a> |
| <b>Reach 235:</b><br><a href="#">Compliant</a>             |