

**TECHSPEC® 12mm Dia. x -18mm FL, VIS-NIR Coated, Double-Concave Lens**



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1  **C\$63.70**

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**Diameter (mm):**  
12.00 +0.0/-0.025

**Effective Focal Length EFL (mm):**  
-18.00

|                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Substrate:</b> <div><div></div><div>N-BK7</div></div>                                                                                            |
| <b>f/#:</b><br>1.5                                                                                                                                  |
| <b>Numerical Aperture NA:</b><br>0.33                                                                                                               |
| <b>Coating:</b><br>VIS-NIR (400-1000nm)                                                                                                             |
| <b>Type:</b><br>Double-Concave Lens                                                                                                                 |
| <b>Wavelength Range (nm):</b><br>400 - 1000                                                                                                         |
| <b>Back Focal Length BFL (mm):</b><br>-18.65                                                                                                        |
| <b>Bevel:</b><br>Protective bevel as needed                                                                                                         |
| <b>Center Thickness CT (mm):</b><br>2.00                                                                                                            |
| <b>Center Thickness Tolerance (mm):</b><br>±0.05                                                                                                    |
| <b>Centering (arcmin):</b><br><1                                                                                                                    |
| <b>Clear Aperture CA (mm):</b><br>10.8                                                                                                              |
| <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>Edge Thickness ET (mm):</b><br>3.76                                                                                                              |
| <b>Focal Length Specification Wavelength (nm):</b><br>587.6                                                                                         |
| <b>Focal Length Tolerance (%):</b><br>±1                                                                                                            |
| <b>Radius R<sub>1</sub>=R<sub>2</sub> (mm):</b><br>-18.94                                                                                           |
| <b>Surface Quality:</b><br>40-20                                                                                                                    |
| <b>Damage Threshold, By Design:</b> <div><div></div><div>5 J/cm<sup>2</sup> @ 532nm, 10ns</div></div>                                               |
| <b>Power (P-V) @ 632.8nm:</b><br>1.5λ                                                                                                               |
| <b>Irregularity (P-V) @ 632.8nm:</b><br>λ/4                                                                                                         |

## Regulatory Compliance

|                                            |
|--------------------------------------------|
| <b>RoHS 2015:</b><br>Compliant             |
| <b>Certificate of Conformance:</b><br>View |
| <b>Reach 235:</b><br>Compliant             |