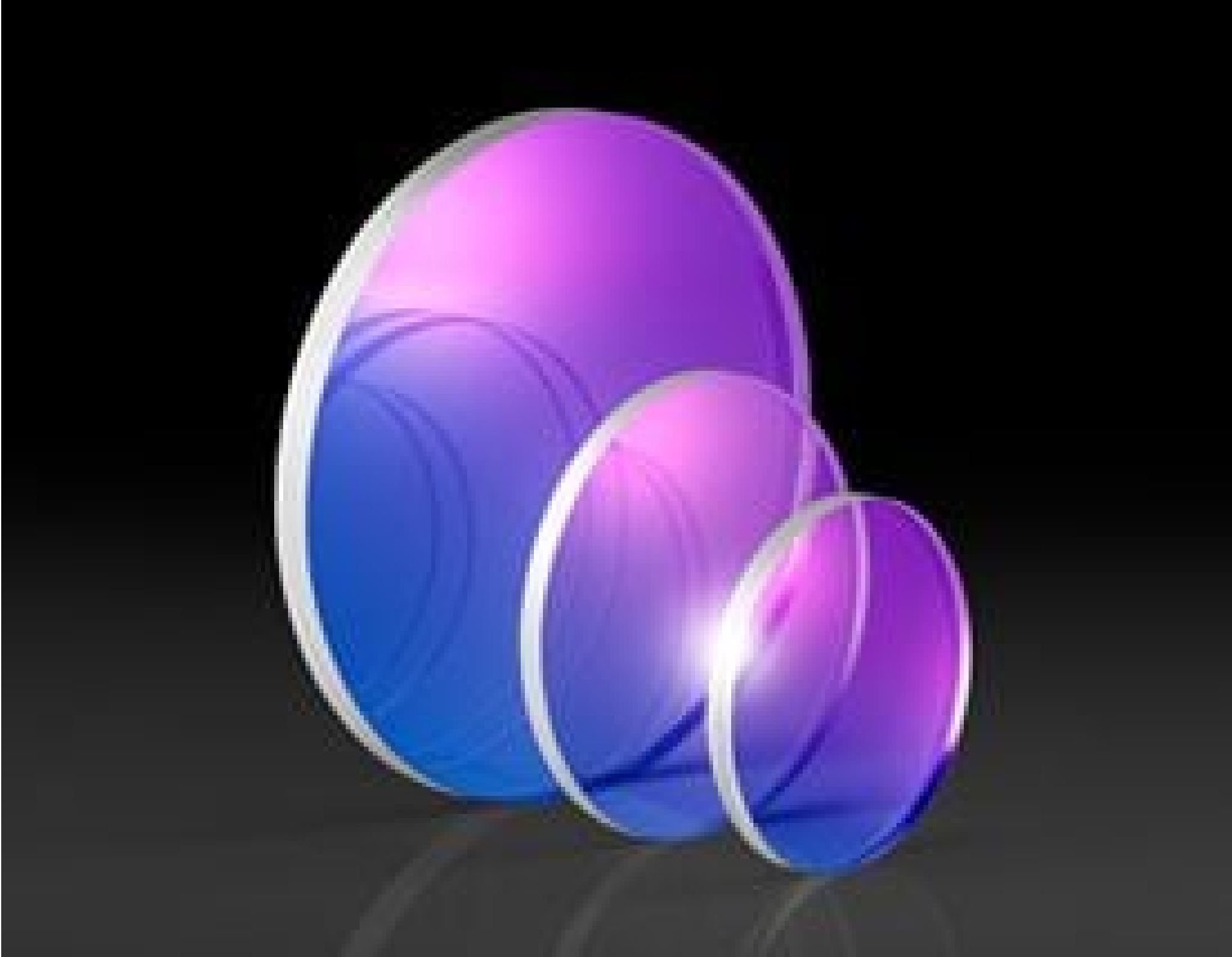


**TECHSPEC® 20mm Diameter, VIS-NIR Coated, Calcium Fluoride Window**



TECHSPEC Calcium Fluoride (CaF<sub>2</sub>) Windows

Stock **#14-816** 3-4 DAYS

⊖ 1 ⊕ **€180,00**

ADD TO CART

Qty 1-10

€180,00

Qty 11+

€162,00

Volume Pricing

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⚠ Prices shown are exclusive of VAT/local taxes

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**Abbe Number (v<sub>d</sub>):**  
94.99

**Axis Orientation:**  
Random

**Bevel:**

|                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective as needed                                                                                                                                 |
| <b>Clear Aperture (%)</b> :<br>90                                                                                                                    |
| <b>Clear Aperture CA (mm)</b> :<br>18.00                                                                                                             |
| <b>Diameter (mm)</b> :<br>20.00 +0.0/-0.1                                                                                                            |
| <b>Thickness (mm)</b> :<br>2.00 ±0.1                                                                                                                 |
| <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>Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C)</b> :<br>18.85                                                                          |
| <b>Density (g/cm³)</b> :<br>3.18                                                                                                                     |
| <b>Edges</b> :<br>Fine Ground                                                                                                                        |
| <b>Index of Refraction n<sub>d</sub></b> :<br>1.434                                                                                                  |
| <b>Knoop Hardness (kg/mm²)</b> :<br>158.3                                                                                                            |
| <b>Parallelism (arcmin)</b> :<br><1                                                                                                                  |
| <b>Poisson's Ratio</b> :<br>0.26                                                                                                                     |
| <b>Substrate</b> :<br>Calcium Fluoride (CaF <sub>2</sub> ) Vacuum UV Grade                                                                           |
| <b>Surface Flatness (P-V)</b> :<br>λ/2                                                                                                               |
| <b>Surface Quality</b> :<br>40-20                                                                                                                    |
| <b>Type</b> :<br>Protective Window                                                                                                                   |
| <b>Wavelength Range (nm)</b> :<br>400 - 1000                                                                                                         |
| <b>Young's Modulus (GPa)</b> :<br>75.8                                                                                                               |
| <b>Damage Threshold, By Design</b> : <input type="checkbox"/><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>             |