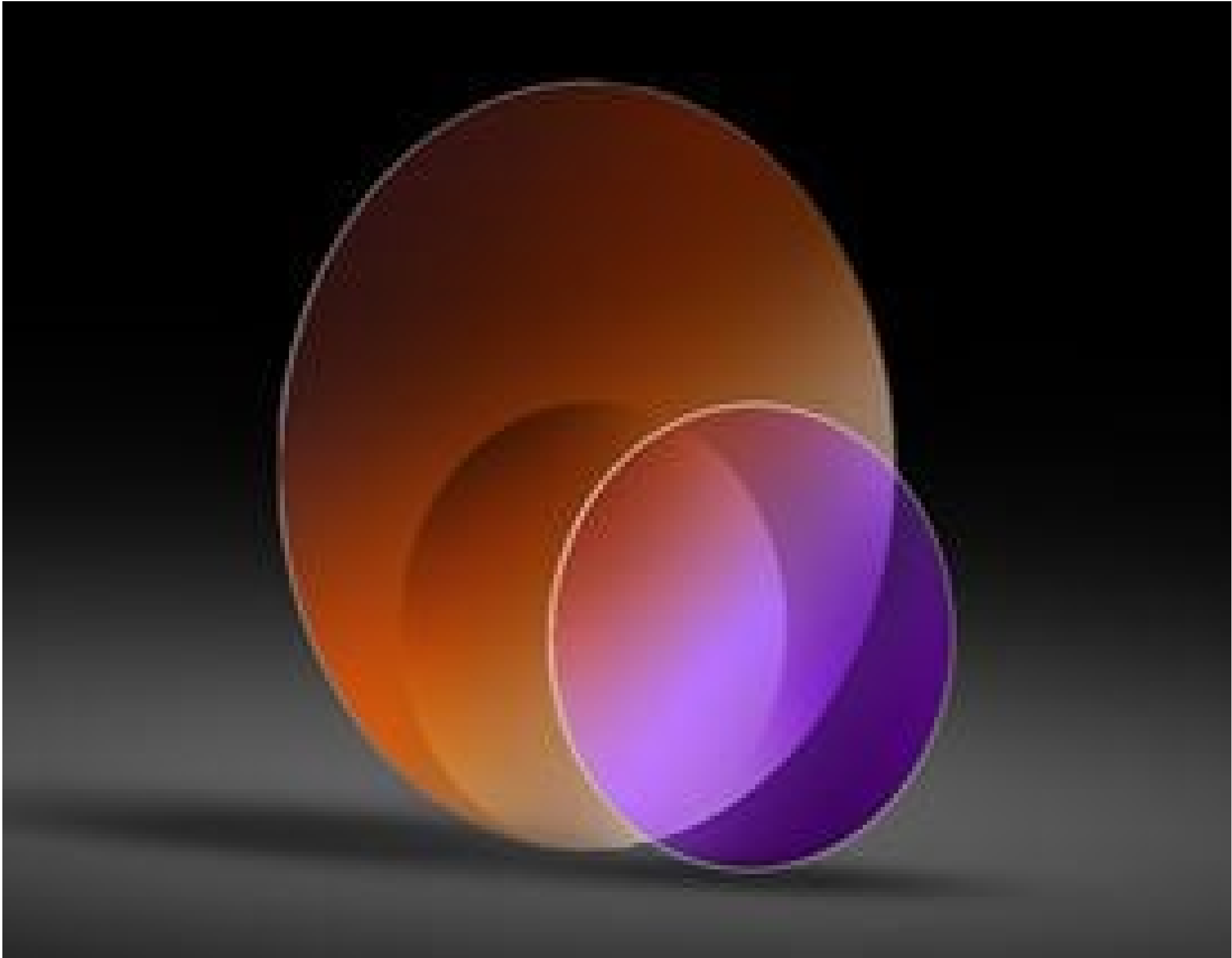


TECHSPEC®

25.4mm Diameter x 450mm FL, 370-550nm Coated, Ultrafast Thin PCX Lens



Stock #11-684 20+ In Stock

☐ Other Coating Options

-

1

+

S\$211<sup>-40</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | S\$211.40 each                |
| Qty 6-25       | S\$186.20 each                |
| Qty 26-49      | S\$169.12 each                |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

General

Plano-Convex Lens

Type:

Physical & Mechanical Properties

25.40 +0.00/-0.10

Diameter (mm):

<3

Centering (arcmin):

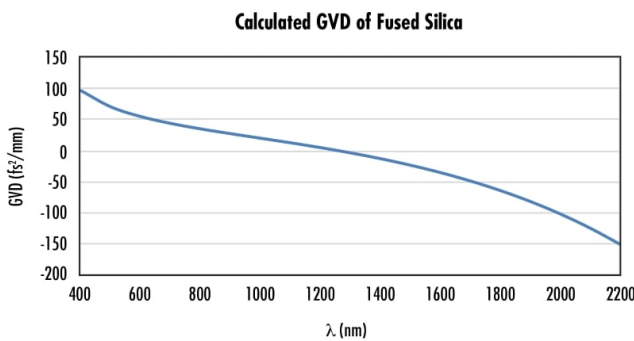
|                                           |                                  |
|-------------------------------------------|----------------------------------|
| 1.60 ±0.10                                | Center Thickness CT (mm):        |
| 1.21                                      | Edge Thickness ET (mm):          |
| 22.86                                     | Clear Aperture CA (mm):          |
| Protective as needed                      | Bevel:                           |
| Optical Properties                        |                                  |
| 450.52 @ 587.6nm                          | Effective Focal Length EFL (mm): |
| 449.43                                    | Back Focal Length BFL (mm):      |
| BBAR (370-550nm)                          | Coating:                         |
| R<0.5% @ 370 - 550nm                      | Coating Specification:           |
| Fused Silica (Corning 7980)               | Substrate: □                     |
| 20-10                                     | Surface Quality:                 |
| 1.5λ                                      | Power (P-V) @ 632.8nm:           |
| λ/8                                       | Irregularity (P-V) @ 632.8nm:    |
| ±1                                        | Focal Length Tolerance (%):      |
| 206.55                                    | Radius R <sub>1</sub> (mm):      |
| 17.72                                     | f/#:                             |
| 0.029                                     | Numerical Aperture NA:           |
| 370 - 550                                 | Wavelength Range (nm):           |
| 0                                         | Angle of Incidence (°):          |
| 7.5 J/cm <sup>2</sup> @ 355nm, 20ns, 20Hz | Damage Threshold, By Design: □   |

|                       |                             |
|-----------------------|-----------------------------|
| Regulatory Compliance |                             |
| Compliant             | RoHS 2015:                  |
| Compliant             | Reach 219:                  |
| View                  | Certificate of Conformance: |

## Product Details

- Ultra-Thin Center Thickness to Limit GDD
  - Low Loss Broadband IBS Anti-Reflection Coating
  - Ideal for Ultrafast and Laser Optics Applications
  - UV or IR Grade Fused Silica Substrates
- TECHSPEC® Ultrafast Thin Plano-Convex Lenses are designed with an ultra-thin center thickness to provide a low group delay dispersion (GDD) for ultrafast laser pulses. TECHSPEC Ultrafast Thin Plano-Convex Lenses are ideal for collecting and focusing light from laser sources and their corresponding harmonics, including Ti:sapphire, Yb:YAG, and Nd:YAG, Holmium, and Thulium lasers. These thin PCX lenses are available in standard sizes with effective focal lengths from 50mm to 2000mm.
- IR grade fused silica differs from UV grade fused silica by its reduced amount of OH- ions, resulting in higher transmission throughout the NIR spectrum and reduction of transmission in the UV spectrum.

## 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

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