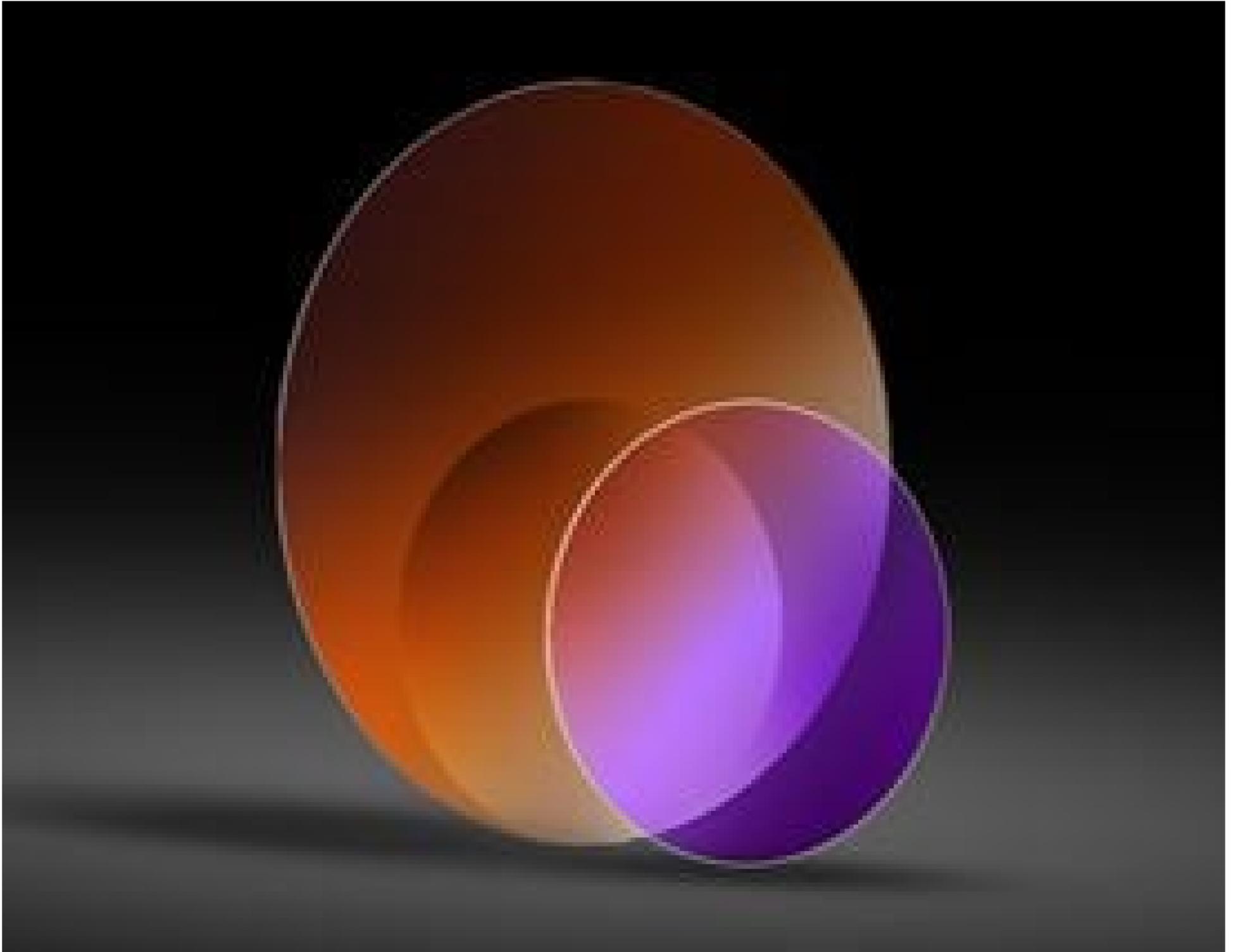


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TECHSPEC® 12.7mm Diameter x 50mm FL, 1900-2200nm Coated, IR Ultrafast Thin PCX Lens



Stock **#11-614 4 In Stock**

[Other Coating Options](#)

⊖ 1 ⊕ ₹8,875

ADD TO CART

| Volume Pricing | |
|----------------|-------------------------------|
| Qty 1-5 | ₹8,875 each |
| Qty 6+ | ₹7,941 each |
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Product Downloads

General

Plano-Convex Lens **Type:**

Physical & Mechanical Properties

12.70 +0.00/-0.10 **Diameter (mm):**

<3 **Centering (arcmin):**

Center Thickness CT (mm):

1.50 ±0.10

Edge Thickness ET (mm):

0.61

Optical Properties

Effective Focal Length EFL (mm):

50.06

Back Focal Length BFL (mm):

49.03

Coating:

BBAR (1900-2200nm)

Coating Specification:

R_{abs} <0.1% @ 1900 - 2200nm

Substrate:

Fused Silica IR Grade

Surface Quality:

20-10

Power (P-V) @ 632.8nm:

1.5λ

Irregularity (P-V) @ 632.8nm:

λ/8

Focal Length Tolerance (%):

±1

Radius R₁ (mm):

22.95

f#:

3.94

Numerical Aperture NA:

0.127

Wavelength Range (nm):

1900 - 2200

Regulatory Compliance

Certificate of Conformance:

[View](#)

Country of Origin:

United States

Imported By:

Edmund Optics India Private Limited

Product Details

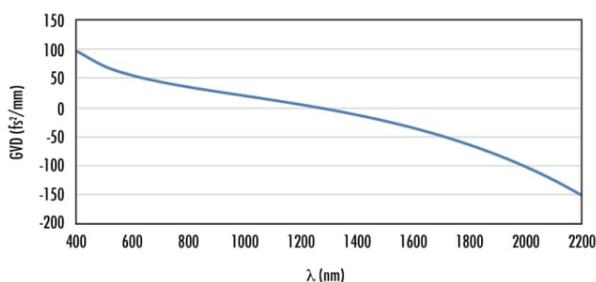
- Ultra-Thin Center Thickness to Limit GDD
- Low Loss Broadband IBS Anti-Reflection Coating
- Ideal for Ultrafast and Laser Optics Applications
- UV or IR Grade Fused Silica Substrates

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

Calculated GVD of Fused Silica



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

Compatible Mounts

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