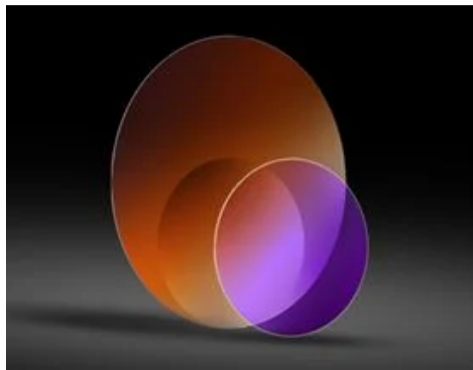


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TECHSPEC®

12.7mm Diameter x 75mm FL, Uncoated, IR Ultrafast Thin PCX Lens



Stock #11-693 **1 In Stock** [Other Coating Options](#)

- 1 + C\$149^{.80}

ADD TO CART

Volume Pricing	
Qty 1-5	C\$149.80 each
Qty 6-25	C\$133.00 each
Qty 26-49	C\$119.84 each
Need More?	Request Quote

Product Downloads	
STEP:step	PDF Drawing:pdf
IGES:igs	Zemax:zmx
eDrawing:eprt	Code V:seq
EO Spec Sheet	Download All

General

Type: Plano-Convex Lens

Physical & Mechanical Properties

Diameter (mm): 12.70 +0.00/-0.10	Centering (arcmin): <3
Center Thickness CT (mm): 1.50 ±0.10	Edge Thickness ET (mm): 0.91
Clear Aperture CA (mm): 11.43	Bevel: Protective as needed

Optical Properties

Effective Focal Length EFL (mm): 75.09 @ 587.6nm	Back Focal Length BFL (mm): 74.06
Coating: Uncoated	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): 34.43	f/#: 5.91
Numerical Aperture NA: 0.09	Wavelength Range (nm): 200 - 3500

Regulatory Compliance

Need different specs or modifications?

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](#).

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.

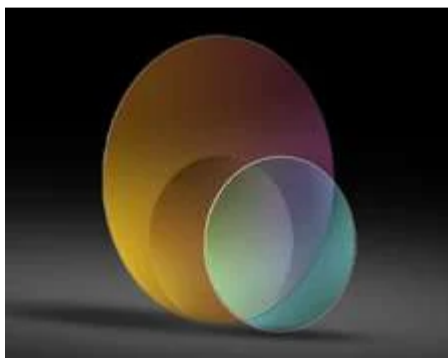
IR grade fused silica differs from UV grade fused silica by its reduced amount of OH⁻ ions, resulting in higher transmission throughout the NIR spectrum and reduction of transmission in the UV spectrum.

Technical Information

Related Products



Ultrafast Optics

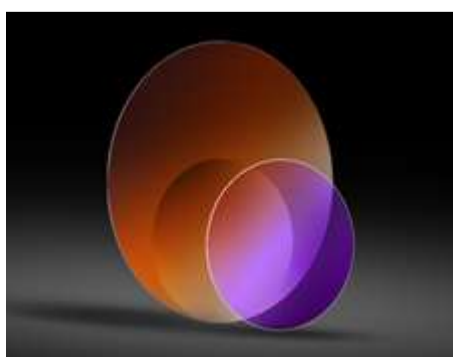


Thin Fused Silica Plano-Convex (PCX) Laser Lenses

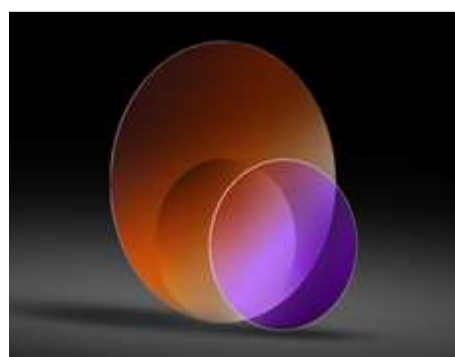


Ultrafast Thin Windows

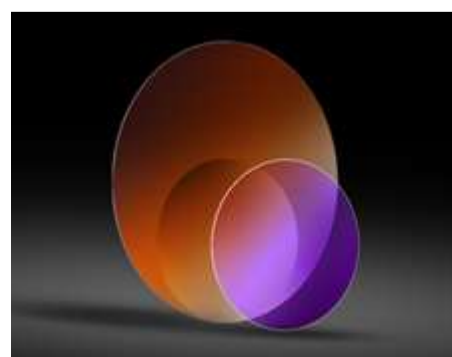
Frequently Purchased Together



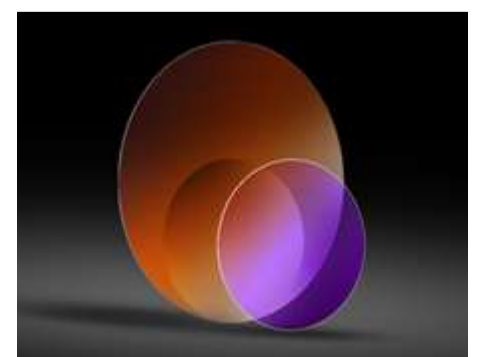
#11-692 - 12.7mm Diameter x 50mm FL, Uncoated, IR Ultrafast Thin PCX Lens
C\$149.80



#11-694 - 12.7mm Diameter x 100mm FL, Uncoated, IR Ultrafast Thin PCX Lens
C\$149.80



#11-695 - 12.7mm Diameter x 125mm FL, Uncoated, IR Ultrafast Thin PCX Lens
C\$149.80



#11-696 - 12.7mm Diameter x 150mm FL, Uncoated, IR Ultrafast Thin PCX Lens
C\$149.80

Qty



Qty












Qty



Qty



Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
 	12.7mm Optic Dia., Optic Mount	Fixed		#64-556	C\$45.85 Request Quote	11 In Stock <input type="text" value="1"/> 
 	12.5/12.7mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-955	C\$365.40 Request Quote	5 In Stock <input type="text" value="1"/> 
 	12.5/12.7mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-958	C\$600.60 Request Quote	5 In Stock <input type="text" value="1"/> 

Check out our full selection of mounts [here](#).

Resources

Media Type

- Application Note
- Technical Tool
- Trending in Optics
- Video
- Published Article
- FAQ
- Glossary
- Scientific Paper

APPLICATION NOTE

An Introduction to Optical Coatings

TECHNICAL TOOL

Gaussian Beams Calculator

CASE STUDIES

Laser Optics for Eye Surgery

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Basics of Ultrafast Lasers

TRENDING IN OPTICS

Ultrafast Highly-Dispersive Mirrors

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