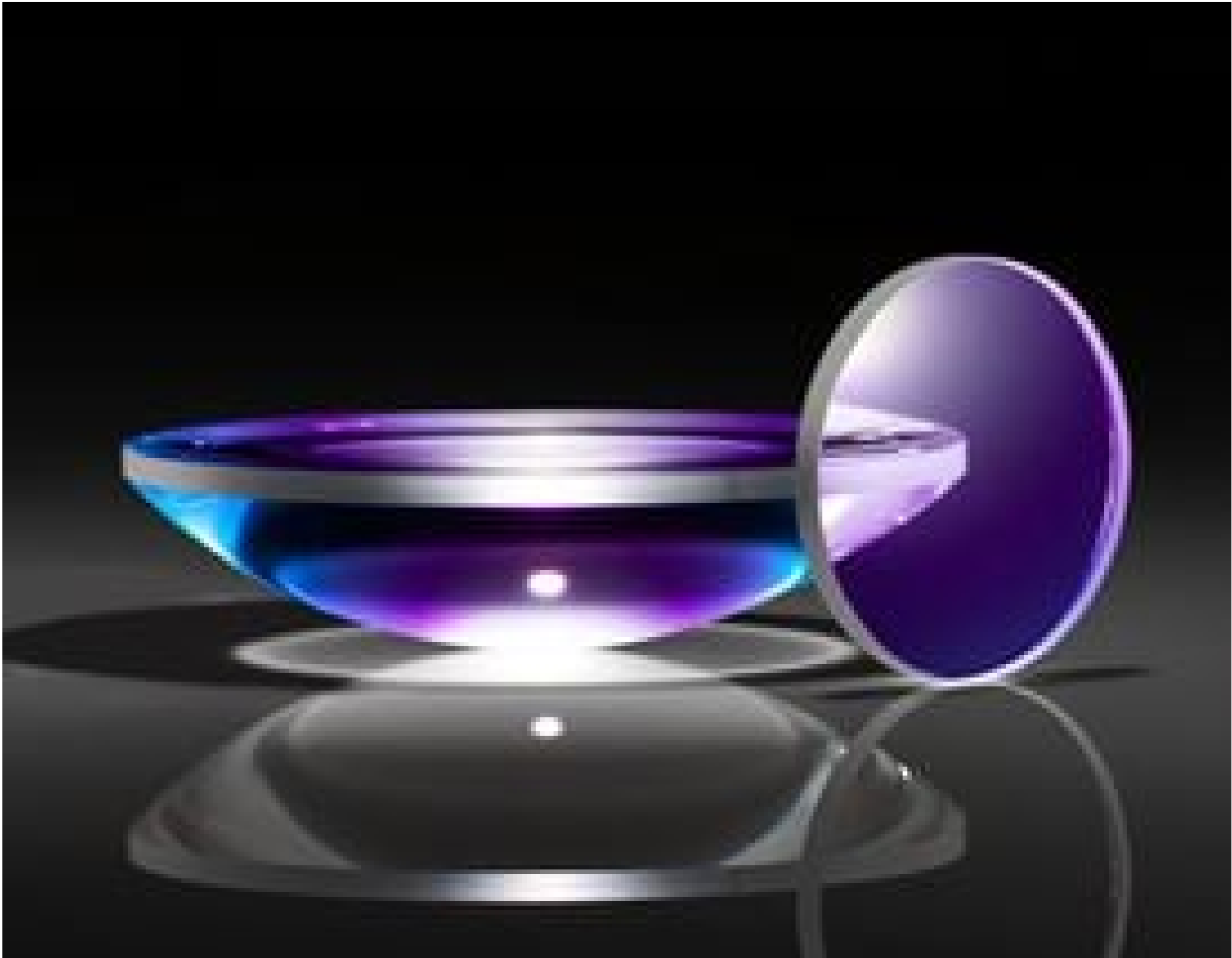


TECHSPEC®

50mm Dia. x 150mm FL, SWIR Coated N-BK7 PCX Lens



SWIR Coated N-BK7 Plano-Convex (PCX) Lenses

Stock **#70-278** 3 In Stock

-

1

+

£66⁴⁰

ADD TO CART

Volume Pricing	
Qty 1-9	£66.40 each
Qty 10-24	£59.60 each
Qty 25-49	£53.20 each
Need More?	Request Quote

! Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Plano-Convex Lens

Type:

Physical & Mechanical Properties	
50.00 +0.00/-0.025	Diameter (mm):
Protective as needed	Bevel:
9.00 ±0.10	Center Thickness CT (mm):
<1	Centering (arcmin):
45.00	Clear Aperture CA (mm):
4.86	Edge Thickness ET (mm):
Optical Properties	
150.00 ±1% and/or 587.6nm	Effective Focal Length EFL (mm):
N-BK7	Substrate:
3.00	f/#:
0.17	Numerical Aperture NA:
BBAR (1650-3000nm)	Coating:
1650 - 3000	Wavelength Range (nm):
144.14	Back Focal Length BFL (mm):
R _{avg} <1% @ 1650 - 3000nm @ 0° AOI R _{abs} <2% @ 1650 - 3000nm @ 0° AOI	Coating Specification:
77.52	Radius R ₁ (mm):
40-20	Surface Quality:
1.5/λ	Power (P-V) @ 632.8nm:
λ/4	Irregularity (P-V) @ 632.8nm:
Regulatory Compliance	
View	Certificate of Conformance:

PRODUCT DETAILS

- Low Cost Alternative to Silicon, ZnSe, and Germanium Lenses
- Suitable for Applications in the 1650 – 2500nm Wavelength Range
- Various Coating Options: Uncoated, MgF₂, VIS 0°, VIS-NIR, NIR I, NIR II, VIS-EXT, and YAG-BBAR

TECHSPEC® SWMR Coated N-BK7 Plano-Convex (PCX) Lenses have a positive focal length, making them ideal for collecting and focusing light in imaging applications. Featuring an AR Coating designed to provide less than 0.1% reflection from 1650 – 3000nm, these lenses are ideal for applications utilizing InGaAs sensors with detection ranges up to 2500nm. TECHSPEC® SWMR Coated N-BK7 Plano-Convex (PCX) Lenses are a low cost, lightweight alternative to common infrared lenses manufactured from Silicon, Zinc Selenide, and Germanium substrates. Identical designs of these lenses are also offered uncoated or with broadband anti-reflective (BBAR) coatings, which include MgF₂, VIS 0°, VIS-NIR, NIR I, NIR II, VIS-EXT, and YAG-BBAR. **Note:** While the coating is designed to provide low reflection out to 3000nm, N-BK7’s reduced transmission above 2200nm should be considered when integrating these lenses into sensitive applications.

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](#).