

**TECHSPEC® 50.0mm Dia. x 200.0mm FL, NIR II Coated, Plano-Convex Lens**

#67-587



해당 제품은 양(+)의 초점 거리를 가지므로 이미징 어플리케이션에서 빛을 모으고 초점을 맞추는 데 적합합니다. 또한, 이미터(emitter), 디텍터, 레이저, 광섬유 등과 관련된 여러 어플리케이션에도 유용합니다. 해당 제품은 다양한 직경 및 초점 거리 옵션이 제공됩니다. 동일한 설계가 적용된 해당 제품군은 [비코팅](#) 옵션과 [MgF<sub>2</sub>](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), [VIS-EXT](#), [YAG-BBAR](#) 등의 BBAR 코팅 옵션도 제공됩니다.

## General

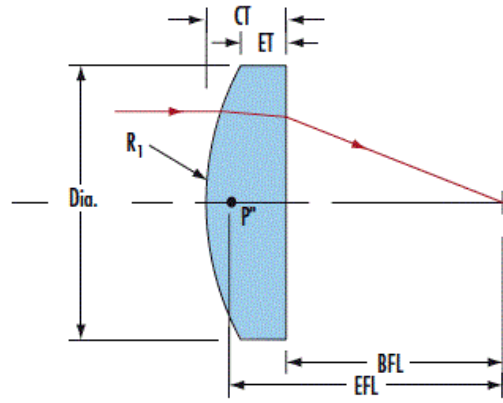
Type: Plano-Convex Lens

## Physical & Mechanical Properties

Diameter (mm):	50.00 +0.0/-0.025
Centering (arcmin):	<1
Center Thickness CT (mm):	5.07 ±0.10
Edge Thickness ET (mm):	2.00
Clear Aperture CA (mm):	49
Bevel:	Protective bevel as needed

## Optical Properties

Effective Focal Length EFL (mm):	200.00 @ 587.6nm
Back Focal Length BFL (mm):	196.66
Coating:	NIR II (750-1550nm)
Coating Specification:	$R_{abs} \leq 1.5\% @ 750 - 800nm$ $R_{abs} \leq 1.0\% @ 800 - 1550nm$ $R_{avg} \leq 0.7\% @ 750 - 1550nm$
Substrate:	<a href="#">N-BK7</a>
Surface Quality:	40-20
Power (P-V) @ 632.8nm:	1.5λ
Irregularity (P-V) @ 632.8nm:	λ/4
Focal Length Tolerance (%):	±1
Radius R <sub>1</sub> (mm):	103.36
f/#:	4
Numerical Aperture NA:	0.13
Wavelength Range (nm):	750 - 1550
Damage Threshold, Reference:	8 J/cm <sup>2</sup> @ 1064nm, 10ns



June 14, 2025

To Whom It May Concern,

This document certifies that the product stated below has been reviewed as requested by Edmund Optics:

재고 번호	제품설명
67-587	50.0mm Dia. x 200.0mm FL, NIR II Coated, Plano-Convex Lens

This item is EU RoHS (2015/863/EU) compliant without the use of exemptions.

This certification means that:

- EO's suppliers have confirmed the material composition of this product.
- EO has implemented rigorous procedures to document this compliance.
- The information provided may, or may not, be based upon actual test data, or on information from our Vendors, Raw Material Suppliers or Subcontractors.



Jay Budd, Director of Corporate Compliance  
 June 14, 2025

Edmund Optics Inc. - 101 E Gloucester Pike, Barrington, NJ 08007 | 1-800-363-1992 | [Compliance@edmundoptics.com](mailto:Compliance@edmundoptics.com)



June 14, 2025

재고 번호

67-587

제품설명

50.0mm Dia. x 200.0mm FL, NIR II Coated, Plano-Convex Lens

Edmund Optics certifies that all articles included in this shipment are in compliance with the terms and conditions of this order. The company also certifies that the articles included in this shipment are in accordance to all agreed upon specifications and quality assurance provisions. Please call 1-800-363-1992 should any questions arise from this shipment.



Jeff Harvey- EVP of Operations



June 14, 2025

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67-587	50.0mm Dia. x 200.0mm FL, NIR II Coated, Plano-Convex Lens

This item does not contain any of the substances listed on the Reach SVHC list as of 14 June 2023 in quantities exceeding 0.1% weight by weight.

Please note the following:

- Entry 11 of Annex V of the REACH regulation EC 1907/2006 as amended by regulation 987/2008, exempts "non-hazardous" glass components from registration.
- Items considered to be packing materials and which do not form part of, or are not required for the operation of, the product, are not considered to be within scope of this declaration.
- EO does not routinely analyze products for substances not purposely added or specified within the design specifications, drawings and assembly procedures.

This certification means that:

- EO's suppliers have confirmed the material composition of this product.
- EO has implemented rigorous procedures to document this compliance.
- The information provided may, or may not, be based upon actual test data, or on information from our Vendors, Raw Material Suppliers or Subcontractors.

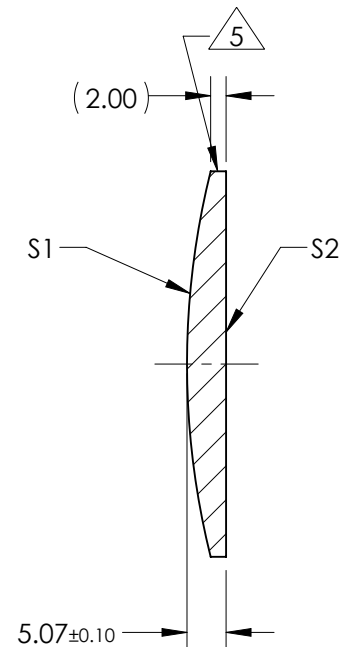
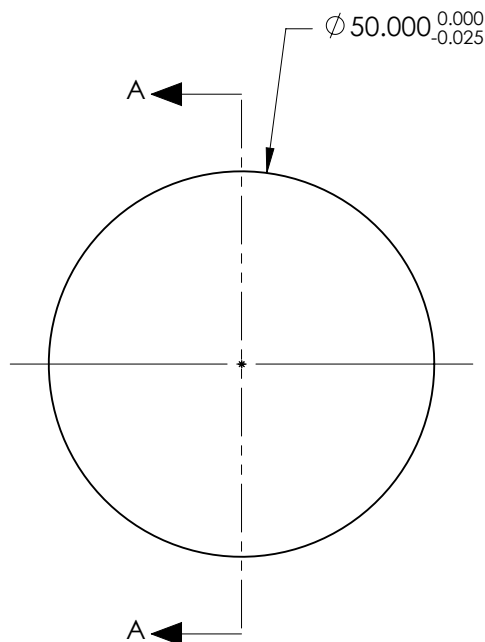


Jay Budd, Director of Corporate Compliance  
June 14, 2025

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NOTES:

1. SUBSTRATE:  
GRADE A FINE ANNEALED  
SCHOTT: N-BK7 517/642
2. ROHS COMPLIANT
3. CENTERING TOLERANCE (AT 587.6nm):  
BEAM DEVIATION (HALF ANGLE): <1 ARCMIN
4. COATING (APPLY ACROSS COATING APERTURE)  
S1 & S2: NIR II  
R(ABS) ≤ 1.5% FROM 750-800nm @ 0° AOI  
R(ABS) ≤ 1.0% FROM 800-1550nm @ 0° AOI  
R(AVG) ≤ 0.7% FROM 750-1550nm @ 0° AOI
5. FINE GRIND SURFACE
6. POWER, IRREGULARITY, AND SURFACE QUALITY SPECIFICATIONS APPLY ACROSS CLEAR APERTURE
7. FOCAL LENGTH (EFL): 200.00mm±1%  
BACK FOCAL LENGTH (BFL): 196.66mm
8. PROTECTIVE BEVEL AS NEEDED
9. DESIGN WAVELENGTH: 587.6nm



SECTION A-A

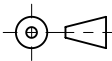
***FOR INFORMATION ONLY:  
DO NOT MANUFACTURE  
PARTS TO THIS DRAWING***

	S1	S2
SHAPE	CONVEX	PLANO
RADIUS	103.36	INFINITY
SURFACE QUALITY	40 - 20	40 - 20
MIN CLEAR APERTURE	Ø 49.00	Ø 49.00
MIN COATING APERTURE	Ø 49.00	Ø 49.00
POWER AT 632.8nm	3.00 RINGS	3.00 RINGS
IRREGULARITY AT 632.8nm	0.50 RINGS	0.50 RINGS

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE  
DIMENSIONS ARE FOR REFERENCE ONLY

**EO**® **Edmund Optics**®

THIRD ANGLE  
PROJECTION



ALL DIMS IN mm

TITLE	50.0mm Dia. x 200.0mm FL, NIR II Coated, Plano-Convex Lens	
DWG NO	67587	SHEET 1 OF 1