

**TECHSPEC® 12.7mm NIR II  $\lambda/4$  Fresnel Rhomb Retarder**



Stock **#36-142** **7 In Stock**

1  **S\$445<sup>.20</sup>**

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Qty 1-5	<b>S\$445.20</b> each
Qty 6+	<b>S\$413.00</b> each
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**SPECIFICATIONS**

**General**

Fresnel Retarder **Type:**

**Physical & Mechanical Properties**

**Clear Aperture CA (mm):**

9.27 x 9.27

**Dimensional Tolerance (mm):**

±0.10

**Bevel:**

Protective as needed

**Width (mm):**

12.70

## Optical Properties

**Coating:**

NIR II (750-1550nm)

**Design Wavelength DWL (nm):**

1064

**Substrate:**

**N-BK7**

**Retardance:**

$\lambda/4$

**Surface Quality:**

20-10

**Wavelength Range (nm):**

750 - 1550

**Entrance and Exit Surface (mm):**

12.7

## Regulatory Compliance

**RoHS 2015:**

**Compliant**

**Certificate of Conformance:**

[View](#)

**Reach 235:**

**Compliant**

## PRODUCT DETAILS

- Broadband Performance with <2% Retardance Variation
- 12.7mm and 25.4mm Options Available
- $\lambda/4$  Retardance

TECHSPEC® Fresnel Rhomb Retarders are available with design wavelengths of 532nm and 1064nm. By utilizing a specific angle, Fresnel rhomb retarders impart a retardance with each internal reflection of the light, totaling  $\lambda/4$ . Each design is paired with either VS 0° or NIR II coatings to provide efficient transmission across a broad range of wavelengths. These TECHSPEC Fresnel Rhomb Retarders deliver less than 2% retardance variation across the specified wavelength range and are optimized for use in diode and fiber 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](#).