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# LightPath 354240 | 1550nm Alignment, 0.50 NA Fiber Collimator w/ SMA Connector

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Fiber Optic Collimator and Focuser Assemblies



Stock #83-732 CLEARANCE **5 In Stock**

⊖ 1 ⊕ **S\$242<sup>20</sup>**

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**General**

354240 **Lightpath Lens Code:**

Fiber Collimator **Type:**

[#37-104](#) **Lens Included:**

## Physical & Mechanical Properties

8.00 **Clear Aperture CA (mm):**

Protective as needed **Bevel:**

304L Stainless Steel Housing **Construction:**

12.00 **Housing Diameter (mm):**

12.7 **Housing Length (mm):**

## Optical Properties

8.00 @ 1150nm **Effective Focal Length EFL (mm):**

0.50 **Numerical Aperture NA:**

[ECO-550](#) **Substrate:** □

BBAR (1050-1600nm) **Coating:**

R<sub>abs</sub> <1.0% @ 1050 - 1600nm **Coating Specification:**

40-20 **Surface Quality:**

1.00 **f#:**

50.02 **Abbe Number (v<sub>d</sub>):**

1.606 **Index of Refraction (n<sub>d</sub>):**

1050 - 1600 **Wavelength Range (nm):**

Infinite **Conjugate Distance:**

1150.00 **Focal Length Specification Wavelength (nm):**

1550 **Alignment Wavelength (nm):**

<0.080 **Transmitted Wavefront Error (λ, RMS):**

## Hardware & Interface Connectivity

SMA **Connector:**

## Threading & Mounting

M12 x0.5 **Mount:**

## Material Properties

11.1 **Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):**

## Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

[Compliant](#) **Reach 233:**

## Product Details

- Easy to Integrate
- Models for FC/PC, FC/APC, and SMA Connections Available
- Four Wavelength Ranges Covering 350-1600nm

LightPath® Fiber Optic Collimators are designed to collimate light exiting a fiber to a desired beam diameter or spot size or to focus light into a fiber when used in reverse. The lenses are diffraction limited, so they can achieve spot sizes down to a few microns. Lenses also feature an antireflection coating for low back reflection. LightPath® Fiber Optic Collimators are designed so that they can be used in pairs to couple the input and output light of optical devices. Optimum performance for long-term use is ensured by the factory set and tested lens alignment. Typical applications can include use with fiber coupled lasers and pigtailed receptacles, as well as communications and data transfer.

# Technical Information

