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TECHSPEC® 6mm Aperture x 50mm L, VIS-NIR Coated, High NA, Fused Silica Light Pipe



Fused Silica Light Pipe Homogenizing Rods



Stock #23-499 [CONTACT US](#)

⊖ 1 ⊕ C\$385⁰⁰

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Volume Pricing	
Qty 1-5	C\$385.00 each
Qty 6-25	C\$308.00 each
Qty 26-49	C\$289.80 each
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Product Downloads

General

Type:
Light Pipe

Physical & Mechanical Properties

Clear Aperture CA (mm):
5

50.00	Length (mm):
5.00	Parallelism (arcmin):
±0.3	Length Tolerance (mm):
High	Light Source NA:
Optical Properties	
VIS-NIR (400-1000nm)	Coating:
Fused Silica (Corning 7980)	Substrate: <input type="checkbox"/>
60-40	Surface Quality:
6.00	Entrance and Exit Aperture (mm):
±0.10	Aperture Tolerance (mm):
Light Homogenization	Image Orientation:
R _{abs} ≤0.25% @ 880nm R _{avg} ≤1.25% @ 400 - 870nm R _{avg} ≤1.25% @ 890 - 1000nm	Coating Specification:
400 - 1000	Wavelength Range (nm):
1λ	Surface Flatness (P-V):
5 J/cm ² @ 532nm, 10ns	Damage Threshold, Reference: <input type="checkbox"/>

Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 235:

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

- Excellent Transmission in the UV
- Hexagonal Aperture Maximizes Throughput
- Perfect for Non-Uniform Light Sources
- [Additional Light Pipe Homogenizing Rods](#) Available

TECHSPEC® Fused Silica Light Pipe Homogenizing Rods utilize total internal reflection to homogenize non-uniform light sources regardless of their spectral characteristics. Their hexagonal configurations provide 35% less light loss than a comparable square configuration. Low Numerical Aperture (NA) sources require longer pipes to uniformly homogenize light while shorter pipes will sufficiently homogenize the output from high NA sources. TECHSPEC® Fused Silica Light Pipe Homogenizing Rods are made from UV Fused silica which is great for use with UV LED illumination sources. These homogenizing rods have excellent transmission in the UV.

N-BK7 versions of our light pipe homogenizing rods are also available. [TECHSPEC® Light Pipe Homogenizing Rod Mounts](#), specifically designed to hold our standard and fused silica families of light pipe homogenizing rods, are available; these mounts greatly simplify the handling and integration of these components.

Technical Information



Coating Curves
