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TECHSPEC® 12.7mm Square x -50 FL, 1064nm AR Coated, Laser Grade PCV Cylinder Lens



Stock **#37-612** **5 In Stock**

S\$341⁰⁰

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Volume Pricing	
Qty 1-5	S\$341.00 each
Qty 6-25	S\$307.00 each
Qty 26-49	S\$292.00 each
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Product Downloads

General

Cylinder Lens, Plano-Concave **Type:**

Physical & Mechanical Properties

Protective as needed **Bevel:**

3.00 **Center Thickness CT (mm):**

±0.1	Center Thickness Tolerance (mm):
11.43 x 11.43	Clear Aperture CA (mm):
+0.0/-0.025	Dimensional Tolerance (mm):
12.7 x 12.7	Dimensions (mm):
3.81	Edge Thickness ET (mm):
<3	Axial Twist (arcmin):

Optical Properties

-50.00	Effective Focal Length EFL (mm):
Fused Silica (Coming 7980)	Substrate: <input type="checkbox"/>
1	f#:
0.50	Numerical Aperture NA:
Laser V-Coat (1064nm)	Coating:
-52.06	Back Focal Length BFL (mm):
$R_{abs} < 0.25\% @ 1064nm$	Coating Specification:
1064	Design Wavelength DWL (nm):
587.6	Focal Length Specification Wavelength (nm):
22.93	Radius R₁ (mm):
20-10	Surface Quality:
$15 J/cm^2 @ 1064nm, 20ns, 20Hz$	Damage Threshold, By Design: <input type="checkbox"/>
1.5λ	Power (P-V) @ 632.8nm:
λ/4	Irregularity (P-V) @ 632.8nm:
<3	Plano Axis Wedge (arcmin):
<4.5	Power Axis Wedge (arcmin):

Regulatory Compliance

Compliant	RoHS 2015:
Compliant	Reach 209:
View	Certificate of Conformance:

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

- <0.25% AR Coated for Nd:YAG Harmonics
- <3 Arcminute Wedge Tolerance
- Fused Silica Substrate

TECHSPEC® Laser Grade Laser Line Cylinder Lenses are manufactured with tightly controlled geometric wedge tolerances to facilitate drop in compatibility. These laser line cylinder lenses feature laser grade optical specifications including 20-10 surface quality and λ/4 surface irregularity on both plano and cylindrical surfaces. TECHSPEC Laser Grade Laser Line Cylinder Lenses are available in 266nm, 355nm, 532nm, and 1064nm AR coated versions, with

specified laser induced damage thresholds. These fused silica lenses are ideal for demanding laser machining and medical applications.

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