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1.8mm Dia, 670nm DWL, 0.23mm WD, VIS Coated, GRIN Lens



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S\$107¹⁰

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General

Gradient Index Lens **Type:**

Physical & Mechanical Properties

1.80 +0.00/-0.01 **Diameter (mm):**

90.00 **Clear Aperture (%):**

3.94 **Length (mm):**

0.23 Pitch:

±5 Length Tolerance (%):

Optical Properties

1.74 Effective Focal Length EFL (mm):

Aluminosilicate Glass Embedded with Silver Ions Substrate: □

0.94 f#:

0.52 Numerical Aperture NA:

BBAR (450-700nm) Coating:

450 - 700 Wavelength Range (nm):

$R_{avg} < 0.7\%$, 0-30° Coating Specification:

670.00 Focal Length Specification Wavelength (nm):

0.362 Gradient Constant (mm^{-1}):

1.629 Index of Refraction (n_d) - Center of Lens:

40-20 Surface Quality:

0.23 Working Distance (mm):

±0.02 Working Distance Tolerance (mm):

Regulatory Compliance

Compliant RoHS 2015:

Compliant Reach 219:

View Certificate of Conformance:

Product Details

- Ideal for Fiber Coupling and Laser Diode Applications
- Comparable Performance to Conventional Aspherical Singlets
- Multiple Sizes and Wavelength Options
- [GRIN Lens Grippers and Table Mounts](#) Available

Gradient Index (GRIN) Rod Lenses feature plane optical surfaces and achieve focus via a continuous change of the refractive index within the lens material. By eliminating complex geometries (such as aspherical surface figures) and carefully designing the lenses for specific working distances, these microlenses are comparatively easy to handle and integrate into optical systems. Gradient Index (GRIN) Rod Lenses are designed to provide a 0.55 numerical aperture. These Rod Lenses are available for purchase in 2 working distance options: 0 and 0.23 mm.

Lenses with a 0mm working distance are ideal for the collimation of single and multi-mode optical fibers and laser diodes because the lens can be positioned and glued directly to the emission source. For focusing applications, or in instances where the lens can't be in direct contact with the emission source, all lenses are available with a small working distance as well. Each lens is available uncoated (approximately 12% reflection loss), or with a BBAR coating option for $R < 0.5\%$.

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Technical Information



