

1.8mm Dia, 810nm DWL, 0.23mm WD, NIR Coated, GRIN Lens



Stock **#64-544** 20+ In Stock

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1

+

A\$122^{.40}

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Qty 1-10	A\$122.40 each
Qty 11-49	A\$106.40 each
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General

Type:

Gradient Index Lens

Physical & Mechanical Properties

Diameter (mm):

1.80 +0.00/-0.01

Clear Aperture (%):

90.00

Length (mm):

3.98

0.23	Pitch:
±5	Length Tolerance (%):
Optical Properties	
1.74	Effective Focal Length EFL (mm):
Aluminosilicate Glass Embedded with Silver Ions	Substrate: ☐
0.95	f/#:
0.51	Numerical Aperture NA:
BBAR (800-1000nm)	Coating:
800 - 1000	Wavelength Range (nm):
R _{avg} <0.5%, 0-30°	Coating Specification:
810.00	Focal Length Specification Wavelength (nm):
0.360	Gradient Constant (mm ⁻¹):
1.624	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%.



Technical Information



