

LightPath 390037 | 5.5mm Dia., 0.85 NA, BBAR (8000-12000nm), Molded IR Aspheric Lens

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Diameter (mm):
5.50 ±0.015

Effective Focal Length EFL (mm):
1.87 @9500nm

Numerical Aperture NA:
0.85

Substrate:  Black Diamond™ BD-2 (Ge₂₈Sb₁₂Se₆₀)
Aspheric Design Wavelength (nm): 9500
Coating: BBAR (8000-12000nm)
Coating Specification: R_{avg} <1.0% @ 8 - 12μm
Surface Quality: 80-50
Clear Aperture CA (mm): 4.00
Edge Thickness ET (mm): 2.24
Center Thickness CT (mm): 3.00
f/#: 0.58
Bevel: Protective bevel as needed
Density (g/cm³): 4.68
Index of Refraction n_d @ 10μm: 2.6023
Index of Refraction n_d @ 14μm: 2.5843
Index of Refraction n_d @ 4μm: 2.6210
Index of Refraction n_d @ 5μm: 2.6173
Lightpath Lens Code: 390037
Thermo-optic coefficient dn/dT: 70 x 10⁻⁶/°C from -40° to +80°C (5 - 14 μm)
Transformation Temperature (°C): 285.00
Type: Aspheric Lens
Wavelength Range (nm): 8000 - 12000
Working Distance (mm): 0.72
Conjugate Distance: Infinite

Regulatory Compliance

RoHS 2015: Compliant
Certificate of Conformance: View
Reach 233: Compliant