

TECHSPEC[®] 12mm Dia. x -18mm FL, NIR II, Inked, Double-Concave Lens



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1

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Diameter (mm):
12.00 ±0.025

Effective Focal Length EFL (mm):

-18.00
Substrate: N-BK7
f#: 1.5
Numerical Aperture NA: 0.33
Coating: NIR II (750-1550nm)
Type: Double-Concave Lens
Wavelength Range (nm): 750 - 1550
Back Focal Length BFL (mm): -18.65
Center Thickness CT (mm): 2.00
Center Thickness Tolerance (mm): ±0.05
Centering (arcmin): <1
Clear Aperture CA (mm): 11.00
Coating Specification: R_{abs} ≤1.5% @ 750 - 800nm R_{abs} ≤1.0% @ 800 - 1550nm R_{avg} ≤0.7% @ 750 - 1550nm
Edge Thickness ET (mm): 3.76
Focal Length Specification Wavelength (nm): 587.6
Focal Length Tolerance (%): ±1.00
Radius R₁=R₂ (mm): -18.94
Surface Quality: 40-20
Damage Threshold, By Design: 8 J/cm² @ 1064nm, 10ns
Power (P-V) @ 632.8nm: 1.5λ
Irregularity (P-V) @ 632.8nm: λ/4

Regulatory Compliance

RoHS: Compliant
Certificate of Conformance: View