

TECHSPEC® 50.0mm Diameter x 250.0mm FL, 980nm V-Coat, PCX Lens



633nm Laser Line Coated Plano-Convex (PCX) Lenses

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Diameter (mm):
50.00 +0.0/-0.025

Effective Focal Length EFL (mm):
250.00 @ 587.6nm

Back Focal Length BFL (mm):
246.74

Coating:
Laser V-Coat (980nm)

Coating Specification: R_{abs} <0.25% @ 980nm
Substrate: N-BK7
Surface Quality: 40-20
Power (P-V) @ 632.8nm: 1.5λ
Irregularity (P-V) @ 632.8nm: λ/4
Focal Length Tolerance (%): ±1
Centering (arcmin): <1
Center Thickness CT (mm): 4.94 ±0.10
Edge Thickness ET (mm): 2.50
Radius R₁ (mm): 129.21
Clear Aperture CA (mm): 49
f/#: 5.00
Numerical Aperture NA: 0.10
Design Wavelength DWL (nm): 980
Type: Plano-Convex Lens
Bevel: Protective bevel as needed
Damage Threshold, By Design: 5 J/cm² @ 980nm, 10ns

Regulatory Compliance

RoHS: Compliant
Reach 224: Compliant
Certificate of Conformance: View