

TECHSPEC®

12.0mm Dia. x 42.0mm FL, MgF₂ Coated, Plano-Convex Lens



Stock **#45-124** [CONTACT US](#)

[Other Coating Options](#)



1



A\$56.00

ADD TO CART

Qty 1-9
A\$56.00
Qty 10+
A\$50.40
Volume Pricing
Request Quote

Get Product Downloads



Diameter (mm):
12.00 +0.0/-0.025

Effective Focal Length EFL (mm):
42.00 @ 587.6nm

Back Focal Length BFL (mm): 40.22
Coating: MgF ₂ (400-700nm)
Coating Specification: R _{avg} ≤1.75% @ 400 - 700nm
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): 2.70 ±0.05
Edge Thickness ET (mm): 1.85
Radius R₁ (mm): 21.71
Clear Aperture CA (mm): 11
f/#: 3.5
Numerical Aperture NA: 0.14
Type: Plano-Convex Lens
Bevel: Protective bevel as needed
Wavelength Range (nm): 400 - 700
Damage Threshold, By Design: ☐ 10 J/cm ² @ 532nm, 10ns

Regulatory Compliance

RoHS 2015: Compliant
Certificate of Conformance: View
Reach 235: Compliant