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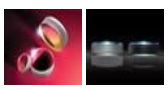
TECHSPEC® 40mm Dia. x 160mm FL, YAG-BBAR Coated, Achromatic Lens

YAG-BBAR Coated Achromatic Lenses



Stock **#11-732** 10 TO 12 DAYS

Other Coating Options

- 1 + ₹14,442

ADD TO CART

Qty 1-5
₹14,442

Qty 6+
₹11,549

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SPECIFICATIONS

General

Type:
Achromatic Lens

Physical & Mechanical Properties

Diameter (mm):
40.00 +0.000/-0.025

Clear Aperture CA (mm):
39.00

Centering (arcmin):
<1

Center Thickness CT (mm):
12.50 ±0.20

Center Thickness CT 1 (mm):
8.50 ±0.10

Center Thickness CT 2 (mm):
4.00 ±0.10

Edge Thickness ET (mm):
9.48

Bevel:
Protective bevel as needed

Optical Properties

Effective Focal Length EFL (mm):
160.00

Focal Length Tolerance (%):
±1

Back Focal Length BFL (mm):
154.10

Focal Length Specification Wavelength (nm):
587.6

Radius R_1 (mm):
98.66

Radius R_2 (mm):
-70.73

Radius R_3 (mm):
-205.72

Substrate:
N-BK7 / N-SF5

Surface Quality:
40-20

***f/#*:**
4.00

Numerical Aperture NA:
0.13

Coating:
YAG-BBAR (500-1100nm)

Coating Specification:
R_{abs} <0.25% @ 532nm
R_{abs} <0.25% @ 1064nm
R_{avg} <1.0% @ 500 - 1100nm

Power (P-V) @ 632.8nm:
1.5λ

Irregularity (P-V) @ 632.8nm:
λ/4

Wavelength Range (nm):
500 - 1100

Regulatory Compliance

RoHS 2015:
Compliant

Reach 219:
Compliant

Certificate of Conformance:
View

PRODUCT DETAILS

- Optimized for <0.25% Absolute Reflectivity at 532nm and 1064nm
- Excellent Broadband Transmission from 500 - 1100nm
- Low Cost Alternative to Air-Spaced Focusing Doublets

TECHSPEC® YAG-BBAR Coated Achromatic Lenses consist of two optical components cemented together to form a doublet that is ideal for correcting on-axis spherical and chromatic aberrations. These achromats feature a broadband anti-reflective coating with superior transmission from 500 - 1100nm, and are optimized for less than 0.25% absolute reflectivity at 532 and 1064nm. Our TECHSPEC® YAG-BBAR Coated Achromatic Lenses are specifically designed to minimize the spot size for polychromatic illumination within the recommended usable wavelength range, but may also be used for focusing Nd:YAG lasers, especially those with an alignment beam.

COMPATIBLE MOUNTS