

TECHSPEC[®] 40mm Dia. x 100mm FL, YAG-BBAR Coated, Achromatic Lens



YAG-BBAR Coated Achromatic Lenses



Stock **#19-420** 20+ In Stock

[Other Coating Options](#)

-

1

+

₹13,390

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Volume Pricing	
Qty 1-5	₹13,390 each
Qty 6-25	₹10,743 each
Qty 26-49	₹10,043 each
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Product Downloads

General

Type:
Achromatic Lens

Physical & Mechanical Properties

Diameter (mm):

40.00 +0.0/-0.025	
39.00	Clear Aperture CA (mm):
<1	Centering (arcmin):
13.00 ±0.20	Center Thickness CT (mm):
10.00 ±0.10	Center Thickness CT 1 (mm):
3.00 ±0.10	Center Thickness CT 2 (mm):
7.92	Edge Thickness ET (mm):
Protective as needed	Bevel:

Optical Properties	
100.00	Effective Focal Length EFL (mm):
±1	Focal Length Tolerance (%):
91.24	Back Focal Length BFL (mm):
587.6	Focal Length Specification Wavelength (nm):
46.73	Radius R ₁ (mm):
-50.61	Radius R ₂ (mm):
-341.70	Radius R ₃ (mm):
N-BK7 / N-SF5	Substrate: ☐
40-20	Surface Quality:
2.5	f/#:
0.20	Numerical Aperture NA:
YAG-BBAR (500-1100nm)	Coating:
R _{abs} <0.25% @ 532nm R _{abs} <0.25% @ 1064nm R _{avg} <1.0% @ 500 - 1100nm	Coating Specification:
1.5λ	Power (P-V) @ 632.8nm:
λ/4	Irregularity (P-V) @ 632.8nm:
500 - 1100	Wavelength Range (nm):

Regulatory Compliance	
View	Certificate of Conformance:
Japan	Country of Origin:
Edmund Optics India Private Limited	Imported By:

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.

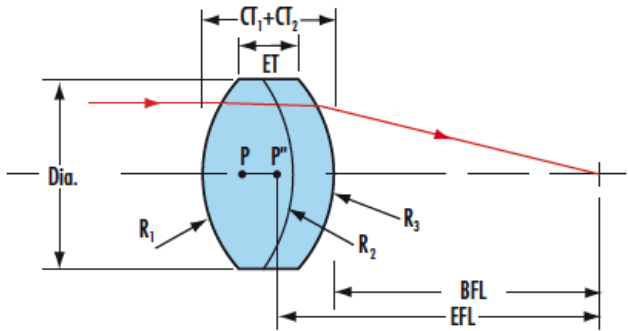
LASER OPTICS

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Technical Information



Custom

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

Compatible Mounts