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TECHSPEC[®] 12.7mm Dia x 31.8mm FL, YAG-BBAR Coated, Achromatic Doublet Lens



YAG-BBAR Coated Achromatic Lenses



Stock **#15-476** 20+ In Stock

[Other Coating Options](#)

-

1

+

£74⁰⁰

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Volume Pricing	
Qty 1-5	£74.00 each
Qty 6-25	£59.20 each
Qty 26-49	£55.60 each
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 Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Achromatic Lens

Physical & Mechanical Properties

12.70 +0.0/-0.025	Diameter (mm):
11.70	Clear Aperture CA (mm):
<1	Centering (arcmin):
5.75 ±0.20	Center Thickness CT (mm):
4.00 ±0.10	Center Thickness CT 1 (mm):
1.75 ±0.10	Center Thickness CT 2 (mm):
4.45	Edge Thickness ET (mm):
Protective as needed	Bevel:

Optical Properties

31.75	Effective Focal Length EFL (mm):
±1	Focal Length Tolerance (%):
28.83	Back Focal Length BFL (mm):
587.6	Focal Length Specification Wavelength (nm):
21.13	Radius R ₁ (mm):
-16.69	Radius R ₂ (mm):
-61.73	Radius R ₃ (mm):
N-SSK8 / N-SF56	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:
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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

MADE BY EDMUND 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