

**TECHSPEC® 20mm Dia. x 40mm FL, YAG-BBAR Coated, Achromatic Lens**



YAG-BBAR Coated Achromatic Lenses



Stock #11-357 **20+ In Stock**

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⊖ 1 ⊕ ₹8,019

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**SPECIFICATIONS**

**General**

Achromatic Lens

Type:

**Physical & Mechanical Properties**20.00 +0.000/-0.025 **Diameter (mm):**19.00 **Clear Aperture CA (mm):**<1 **Centering (arcmin):**10.00 ±0.20 **Center Thickness CT (mm):**8.00 ±0.10 **Center Thickness CT 1 (mm):**2.00 ±0.10 **Center Thickness CT 2 (mm):**7.83 **Edge Thickness ET (mm):**Protective as needed **Bevel:****Optical Properties**40.00 **Effective Focal Length EFL (mm):**±1 **Focal Length Tolerance (%):**34.40 **Back Focal Length BFL (mm):**587.6 **Focal Length Specification Wavelength (nm):**27.63 **Radius R<sub>1</sub> (mm):**17.58 **Radius R<sub>2</sub> (mm):**171.25 **Radius R<sub>3</sub> (mm):**[N-BAF10 / N-SF10](#) **Substrate:**40-20 **Surface Quality:**2.00 **f#:**0.25 **Numerical Aperture NA:**YAG-BBAR (500-1100nm) **Coating:****Coating Specification:**  
R<sub>abs</sub> <0.25% @ 532nm  
R<sub>abs</sub> <0.25% @ 1064nm  
R<sub>avg</sub> <1.0% @ 500 - 1100nm1.5λ **Power (P-V) @ 632.8nm:**λ/4 **Irregularity (P-V) @ 632.8nm:**500 - 1100 **Wavelength Range (nm):****Regulatory Compliance**[Compliant](#) **RoHS 2015:**[Compliant](#) **Reach 219:**[View](#) **Certificate of Conformance:****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.



## 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

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