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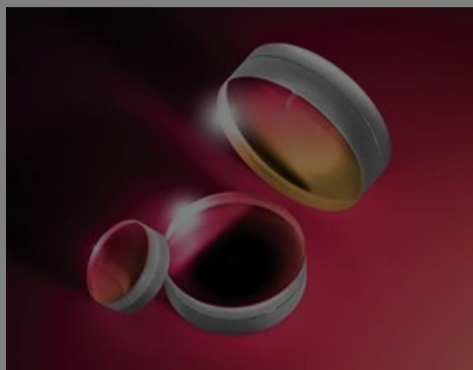
TECHSPEC®

12.5mm Dia. x 10mm

Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

Select Your Country/Region: European Union

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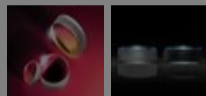


Stock #33-208 **10 In Stock** [Other Coating Options](#)

1 €92^{,50}

ADD TO CART

YAG-BBAR Coated Achromatic Lenses



Volume Pricing	
Qty 1-5	each €92,50
Qty 6-25	each €74,00
Qty 26-49	each €69,50
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

- STEP:step
- STEP:stp
- Curve:pdf
- PDF Drawing:pdf
- ISO 10110 Drawing
- IGES:igs
- Spec Sheets:pdf
- Curve (xlsx):xlsx
- Zemax:zar
- Zemax:zmx
- eDrawing:eprt
- Code V:seq
- EO Spec Sheet
- [Download All](#)

General

Type: Achromatic Lens

Physical & Mechanical Properties

Diameter (mm):	12.50 +0.000/-0.025	Clear Aperture CA (mm):	11.5
Centering (arcmin):	<1	Center Thickness CT (mm):	4.50 ±0.10
Center Thickness CT 1 (mm):	3.00 ±0.05	Center Thickness CT 2 (mm):	1.5 ±0.05
Edge Thickness ET (mm):	4.03	Bevel:	Protective as needed

Optical Properties

Effective Focal Length EFL (mm):	100.00	Focal Length Tolerance (%):	±1
Back Focal Length BFL (mm):	97.92	Focal Length Specification Wavelength (nm):	587.6
Radius R ₁ (mm):	61.54	Radius R ₂ (mm):	44.39
Radius R ₃ (mm):	130.26	Substrate: N-BK7 / N-SF5	
Surface Quality:	40-20	f/#:	8.00

Numerical Aperture NA:	0.06	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		

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Regulatory Compliance			
RoHS 2015:	Compliant	Reach 219:	Compliant
Certificate of Conformance:	View		

Need different specs or modifications?

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:

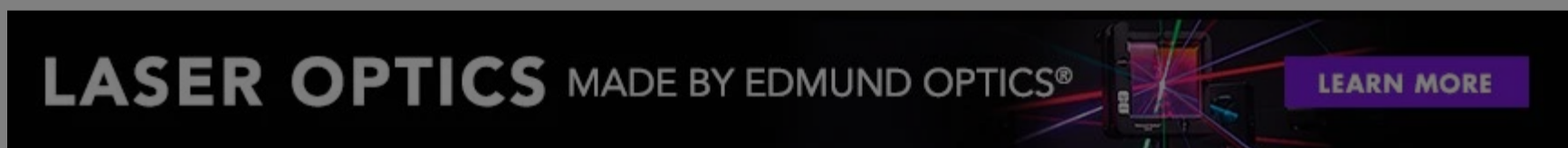
- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

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

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.



Related Products



Nd:YAG Air-Spaced Achromatic Focusing Doublets



Laser Lenses



Achromatic Lenses



Optical Lens and Filter Mounts

Frequently Purchased Together

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#33-207 - 12.5mm Dia. x
75mm FL, YAG-BBAR Coated,
Achromatic Lens
€92,50

Qty

€975,00

Qty

Achromatic Lens
€92,50

Qty

#33-206 - 12.5mm Dia. x
50mm FL, YAG-BBAR Coated,
Achromatic Lens
€92,50

Qty

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	12.5/12.7mm Optic Dia., SM05 Thin Mount, M4	Fixed		#13-789	€19,50 Request Quote	10 In Stock <input type="text" value="1"/>
	12.5/12.7mm Optic Dia., SM05 Thin Mount, 8-32	Fixed		#13-790	€19,50 Request Quote	17 In Stock <input type="text" value="1"/>
	12.5/12.7mm Optic Dia., L-Slot Direct Mount	Fixed		#36-416	€59,00 Request Quote	17 In Stock <input type="text" value="1"/>
	12.5/12.7mm Optic Dia., Side Flange Direct Mount	Fixed		#36-418	€59,00 Request Quote	10 In Stock <input type="text" value="1"/>
	12.5mm Diameter, C-Mount Thick Optic Mount	Fixed		#54-623	€59,50 Request Quote	17 In Stock <input type="text" value="1"/>
	12-12.7mm Diameter, S-Mount Thick Optic Mount	Fixed		#63-952	€67,50 Request Quote	20+ In Stock <input type="text" value="1"/>
	12.5/12.7mm Diameter, T-Mount Thin Optic Mount	Fixed		#52-933	€72,00 Request Quote	5 In Stock <input type="text" value="1"/>
	12.5mm Inner Pair Optic Mounts	Fixed		#11-406	€80,50 Request Quote	2 In Stock <input type="text" value="1"/>
	12.5/12.7mm Optic Dia., L-Slot and Rotation Direct Mount	Adjustable - Rotary		#36-417	€96,50 Request Quote	20+ In Stock <input type="text" value="1"/>
	12.5/12.7mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-955	€261,00 Request Quote	7 In Stock <input type="text" value="1"/>
	12.5/12.7mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-958	€429,00 Request Quote	5 In Stock <input type="text" value="1"/>

Check out our full selection of mounts [here](#).

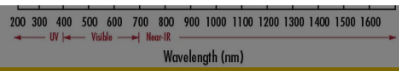
Resources

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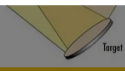
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Media Type

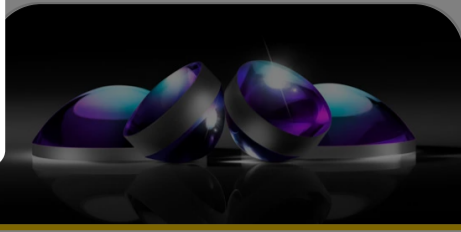
- Application Note
- Scientific Paper
- Video
- Glossary
- FAQ



APPLICATION NOTE
Anti-Reflection (AR) Coatings




APPLICATION NOTE
An Introduction to Optical Coatings



APPLICATION NOTE
Lens Geometry Performance Comparison



SCIENTIFIC PAPER
Advantages of using engineered chalcogenide...



VIDEO
Infrared Light



GLOSSARY
Short Wave Infrared (SWIR)

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