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TECHSPEC[®] 12.0mm Dia. x -12 FL, YAG-BBAR, Plano-Concave Lens



Stock #21-310 14 In Stock

-

1

+

€51⁰⁰

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Volume Pricing	
Qty 1-9	€51,00 each
Qty 10-25	€45,75 each
Qty 26-49	€40,75 each
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General

Plano-Concave Lens

Type:

Physical & Mechanical Properties

Diameter (mm):

12.00	
Protective as needed	Bevel:
2.20 ±0.05	Center Thickness CT (mm):
<1	Centering (arcmin):
11.00	Clear Aperture CA (mm):
4.12	Edge Thickness ET (mm):

Optical Properties	
-12.00	Effective Focal Length EFL (mm):
N-SF11	Substrate: ☐
1.00	f/#:
0.50	Numerical Aperture NA:
YAG-BBAR (500-1100nm)	Coating:
500 - 1100	Wavelength Range (nm):
-13.23	Back Focal Length BFL (mm):
R _{abs} <0.25% @ 532nm R _{abs} <0.25% @ 1064nm R _{avg} <1.0% @ 500 - 1100nm	Coating Specification:
587.6	Focal Length Specification Wavelength (nm):
±1	Focal Length Tolerance (%):
-9.42	Radius R ₁ (mm):
40-20	Surface Quality:
5 J/cm² @ 532nm, 10ns	Damage Threshold, By Design: ☐
1.5λ	Power (P-V) @ 632.8nm:
λ/4	Irregularity (P-V) @ 632.8nm:

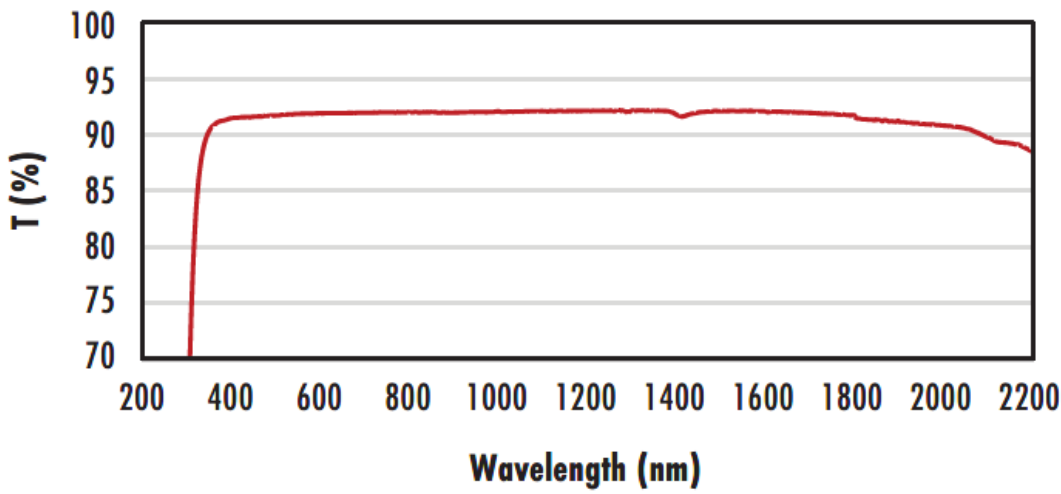
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 235:

Product Details

- Negative Focal Lengths for Beam Expansion or Light Projection Applications
 - Optimized for R<0.25% at both 532nm and 1064nm
 - AR Coated to Provide <1.0% Reflectance per Surface for 500 - 1100nm
 - Various Coating Options: [Uncoated](#), [VIS-EXT](#), [MgF₂](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), [NIR II](#), and [1064nm V-Coat](#)
- TECHSPEC® YAG-BBAR Coated Plano-Concave (PCV) Lenses are designed to bend parallel input rays to diverge from one another on the output side of the lens causing this lens to have a negative focal length. These lenses can be used for balancing aberrations created by other lenses within a system due to their negative spherical aberration. Plano-Concave (PCV) lenses are commonly used in a variety of applications including image reduction, beam expansion and telescopes. TECHSPEC® YAG-BBAR Coated Plano-Concave (PCV) Lenses feature less than 0.25% reflection at common Nd:YAG laser wavelengths of 532nm and 1064nm. These lenses are also available [Uncoated](#), [VIS-EXT](#), [MgF₂](#), [VIS 0°](#), [VIS-NIR](#), [NIR I](#), or with [NIR II](#) AR coating options.

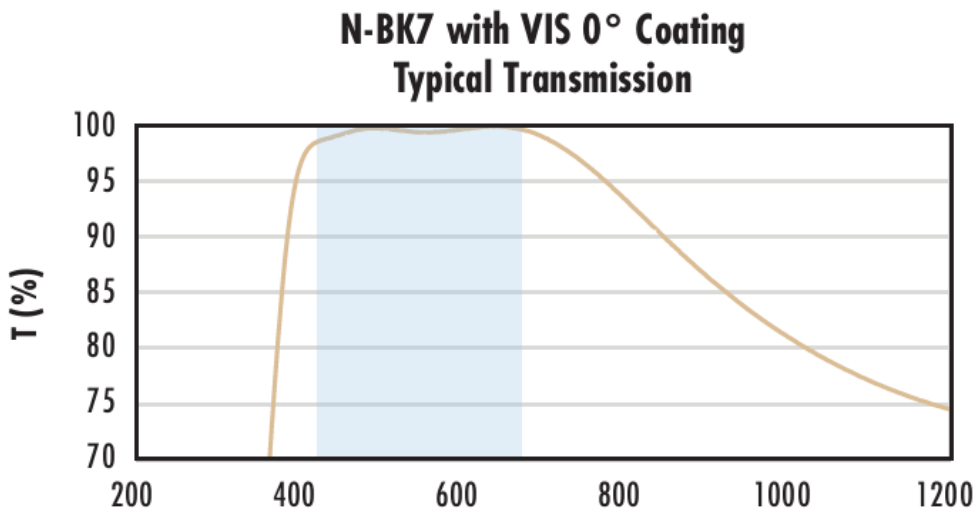
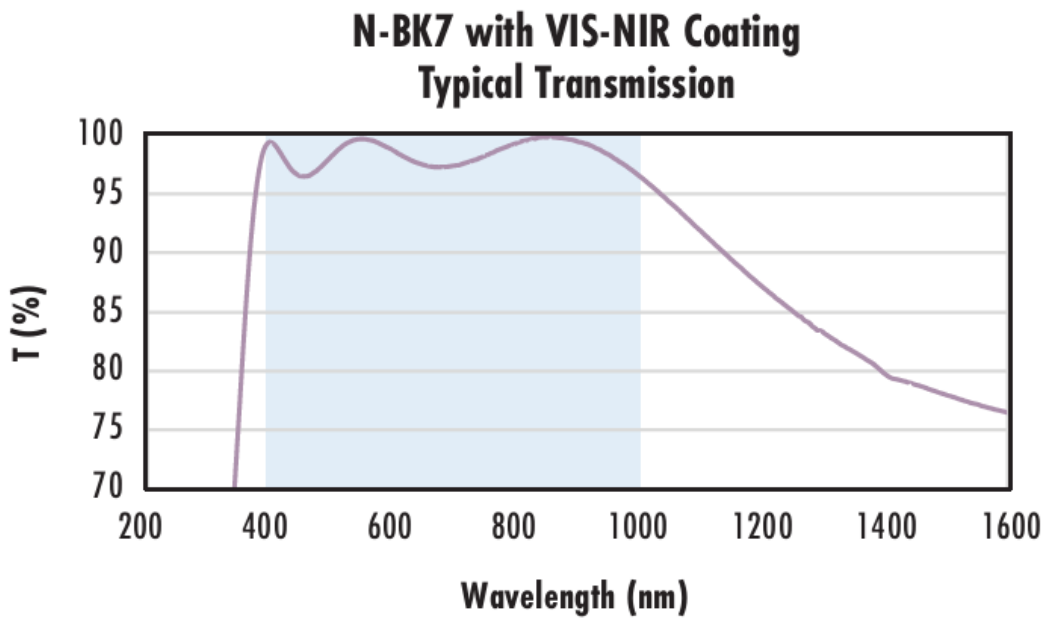
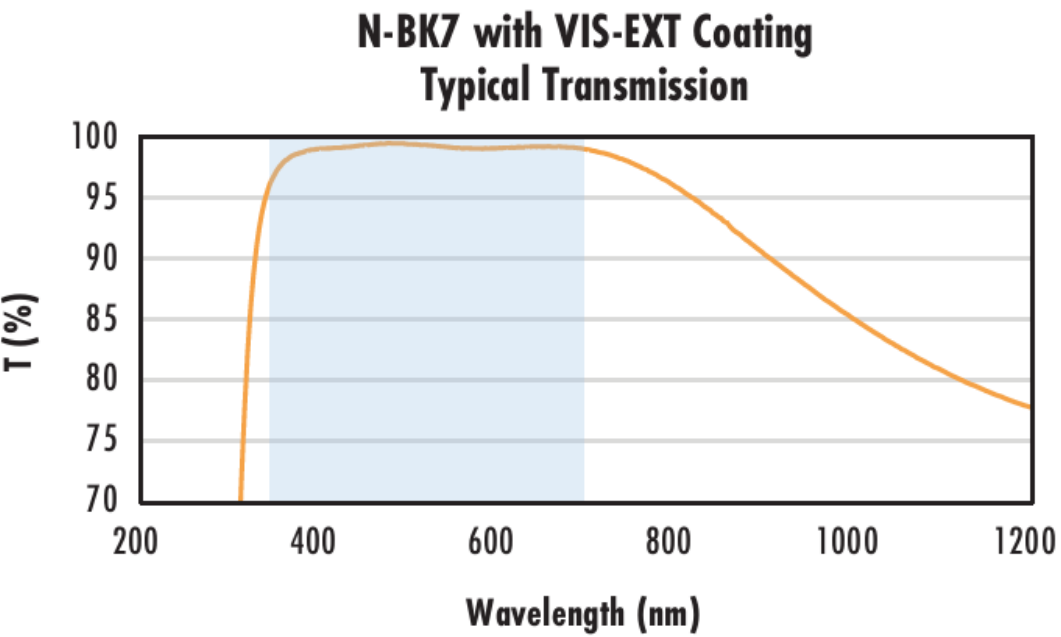
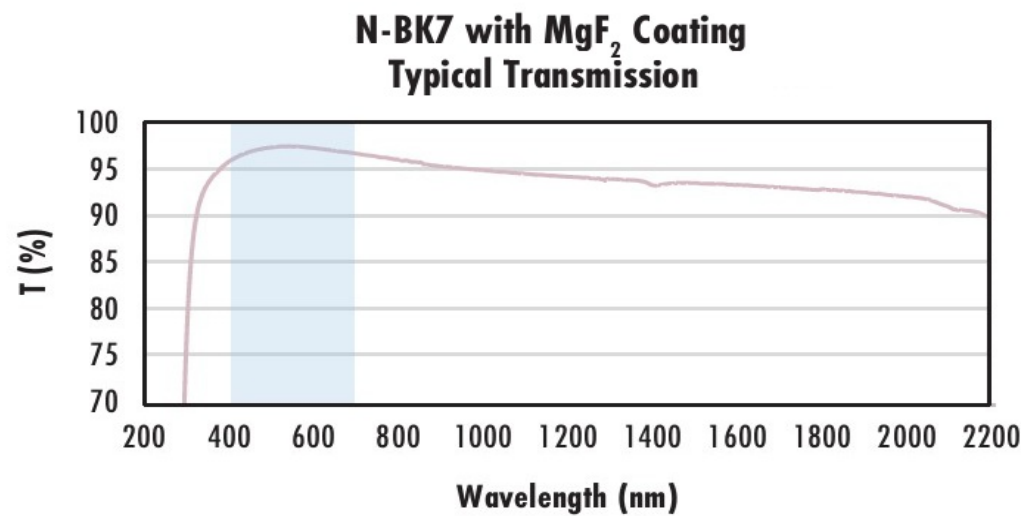
Technical Information

N-BK7	
Uncoated N-BK7 Typical Transmission	



Typical transmission of a 3mm thick, uncoated N-BK7 window across the UV - NIR spectra.

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Typical transmission of a 3mm thick N-BK7 window with VIS 0° (425-675nm) coating at 0° AOI.

The blue shaded region indicates the coating design wavelength range, with the following specification:

$R_{avg} \leq 0.4\% @ 425 - 675\text{nm}$

Data outside this range is not guaranteed and is for reference only.

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