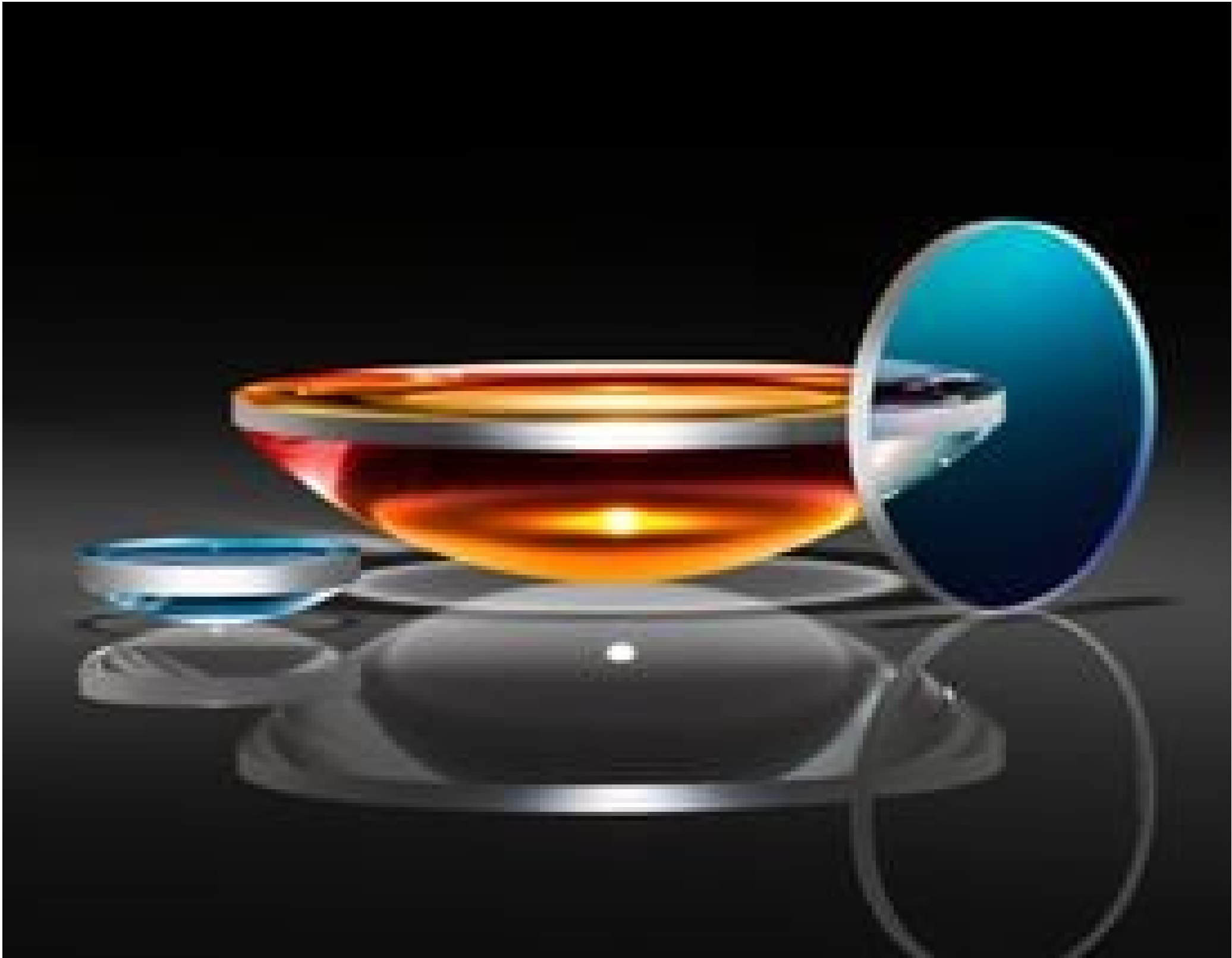
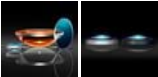


TECHSPEC[®] 12mm Dia. x 100mm FL, YAG-BBAR Coated, Plano-Convex Lens



UV Fused Silica Plano-Convex (PCX) Lenses



Stock **#18-063** 8 In Stock

-

1

+

A\$238⁻⁴⁰

ADD TO CART

| Volume Pricing | |
|----------------|-------------------------------|
| Qty 1-5 | A\$238.40 each |
| Qty 6-25 | A\$190.40 each |
| Qty 26-49 | A\$179.20 each |
| Need More? | Request Quote |

Product Downloads

SPECIFICATIONS

General

Type:

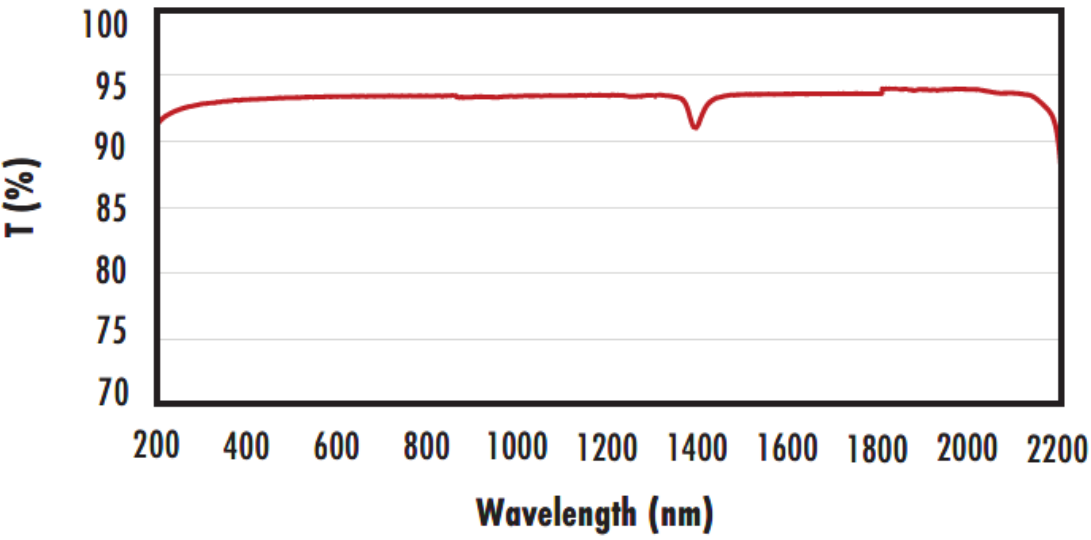
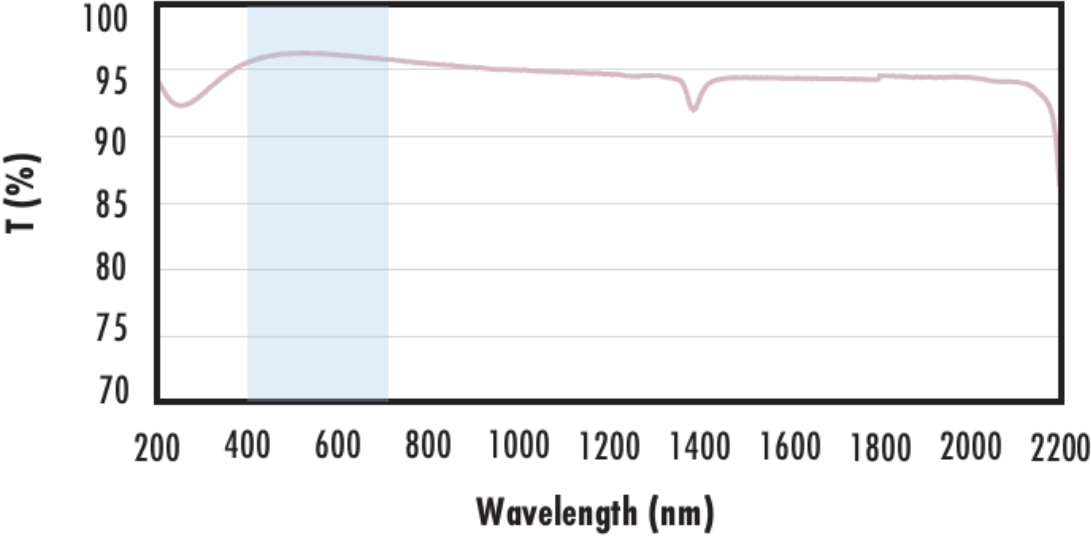
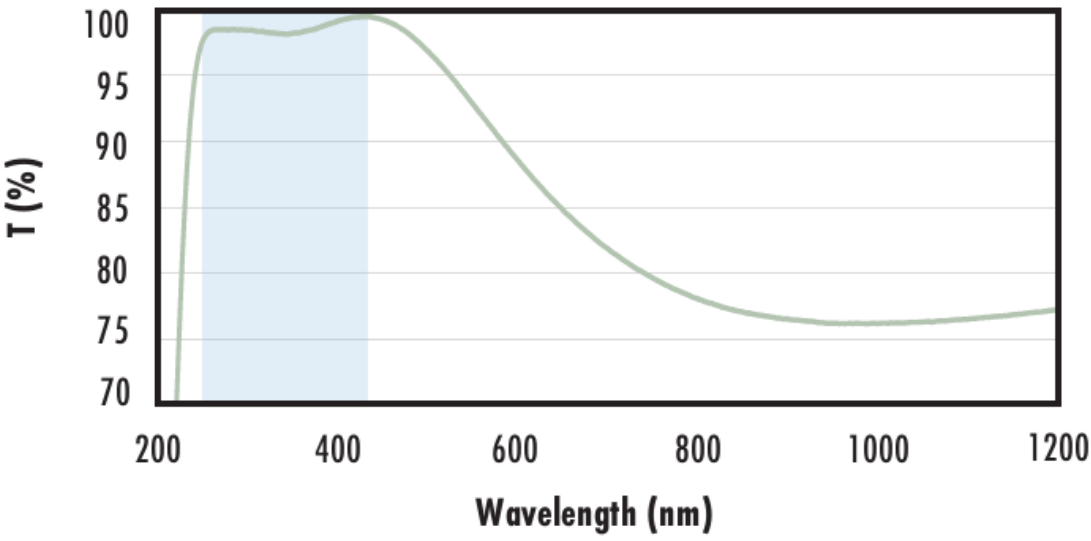
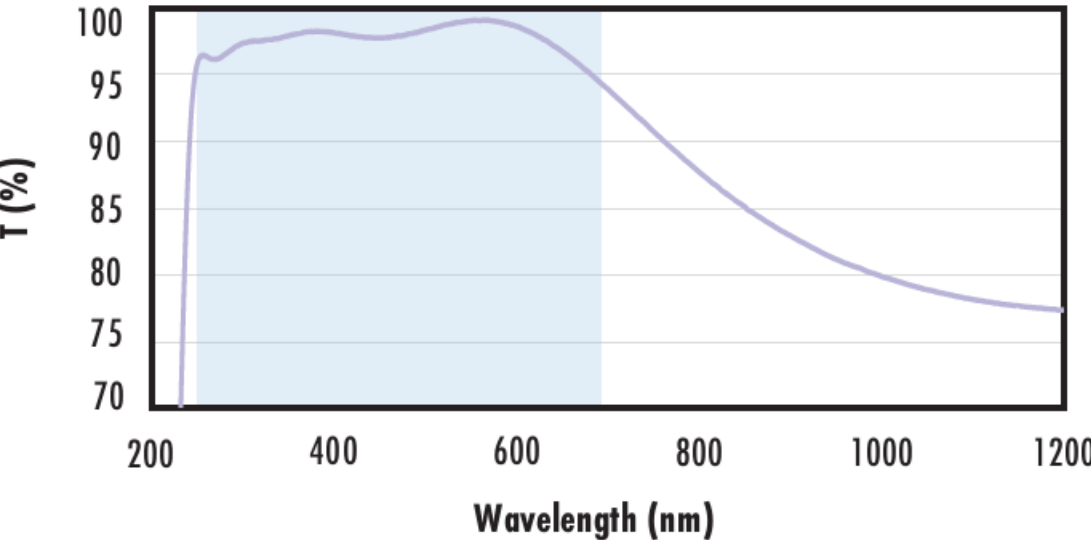

| | |
|--|---|
| Plano-Convex Lens | |
| Physical & Mechanical Properties | |
| 12.00 -0.025 | Diameter (mm): |
| <1 | Centering (arcmin): |
| 2.44 ±0.05 | Center Thickness CT (mm): |
| 2.05 | Edge Thickness ET (mm): |
| 11 | Clear Aperture CA (mm): |
| Protective as needed | Bevel: |
| Optical Properties | |
| 100.00 @ 587.6nm | Effective Focal Length EFL (mm): |
| 98.33 | Back Focal Length BFL (mm): |
| YAG-BBAR (500-1100nm) | Coating: |
| R _{abs} <0.25% @ 532nm R _{abs} <0.25% @ 1064nm R _{avg} <1.0% @ 500 - 1100nm | Coating Specification: |
| Fused Silica (Corning 7980) | Substrate: <input type="checkbox"/> |
| 40-20 | Surface Quality: |
| 3 Rings | Power (P-V) @ 632.8nm: |
| 0.5 Rings | Irregularity (P-V) @ 632.8nm: |
| ±1 | Focal Length Tolerance (%): |
| 45.85 | Radius R ₁ (mm): |
| 8.33 | f/#: |
| 0.06 | Numerical Aperture NA: |
| 500 - 1100 | Wavelength Range (nm): |
| 5 J/cm² @ 532nm, 10ns | Damage Threshold, By Design: <input type="checkbox"/> |
| Regulatory Compliance | |
| Compliant | RoHS 2015: |
| View | Certificate of Conformance: |
| Compliant | Reach 235: |

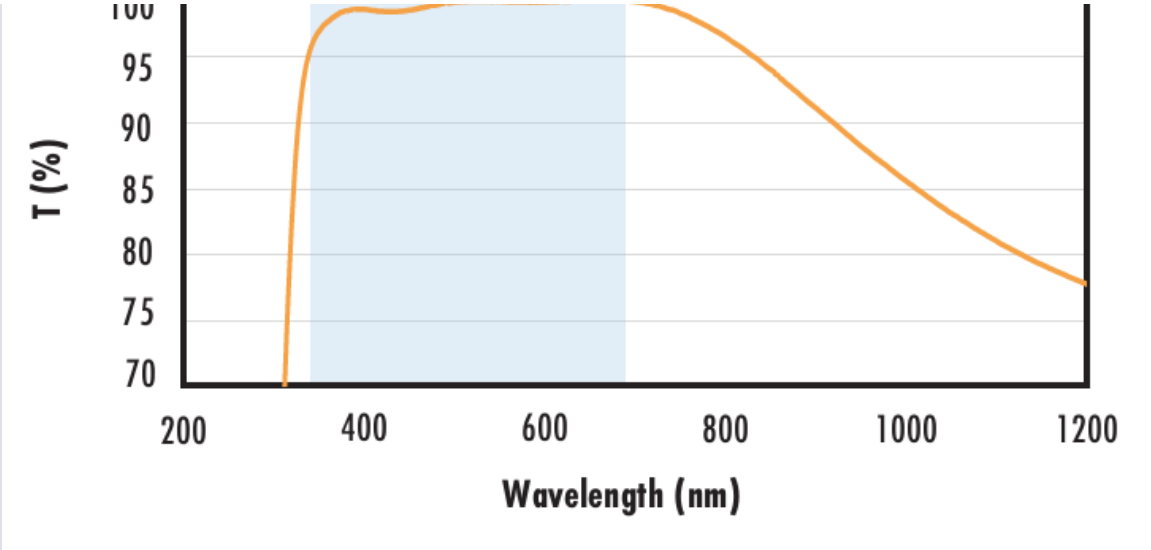
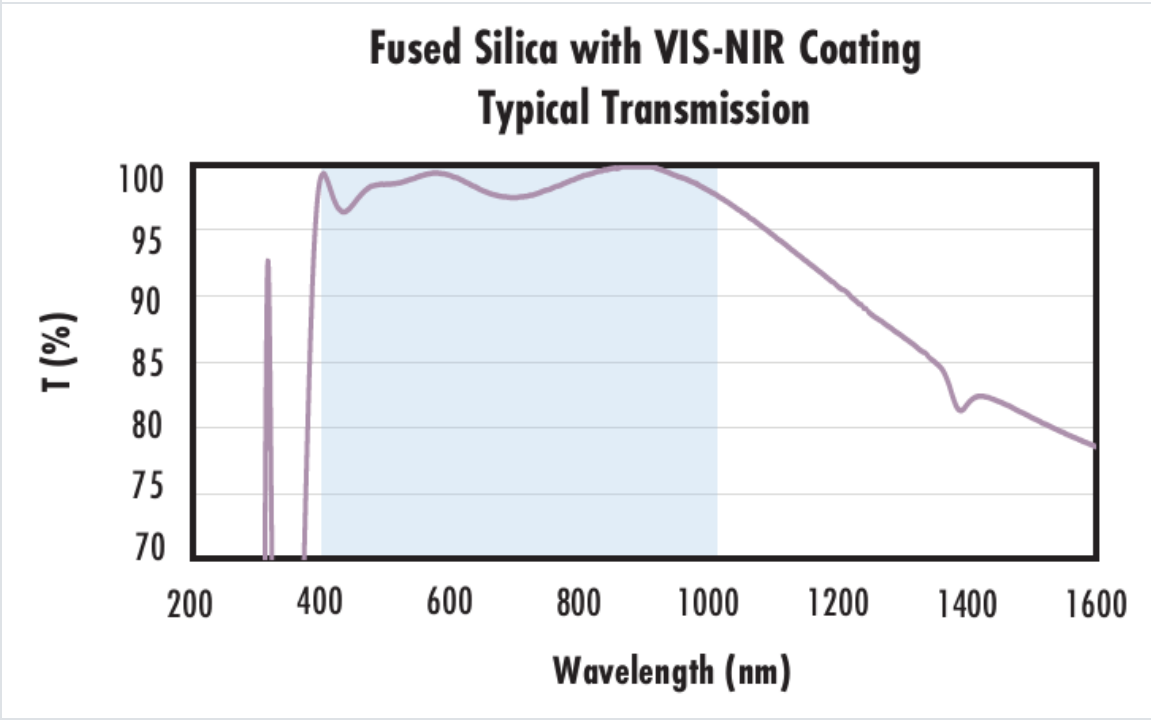
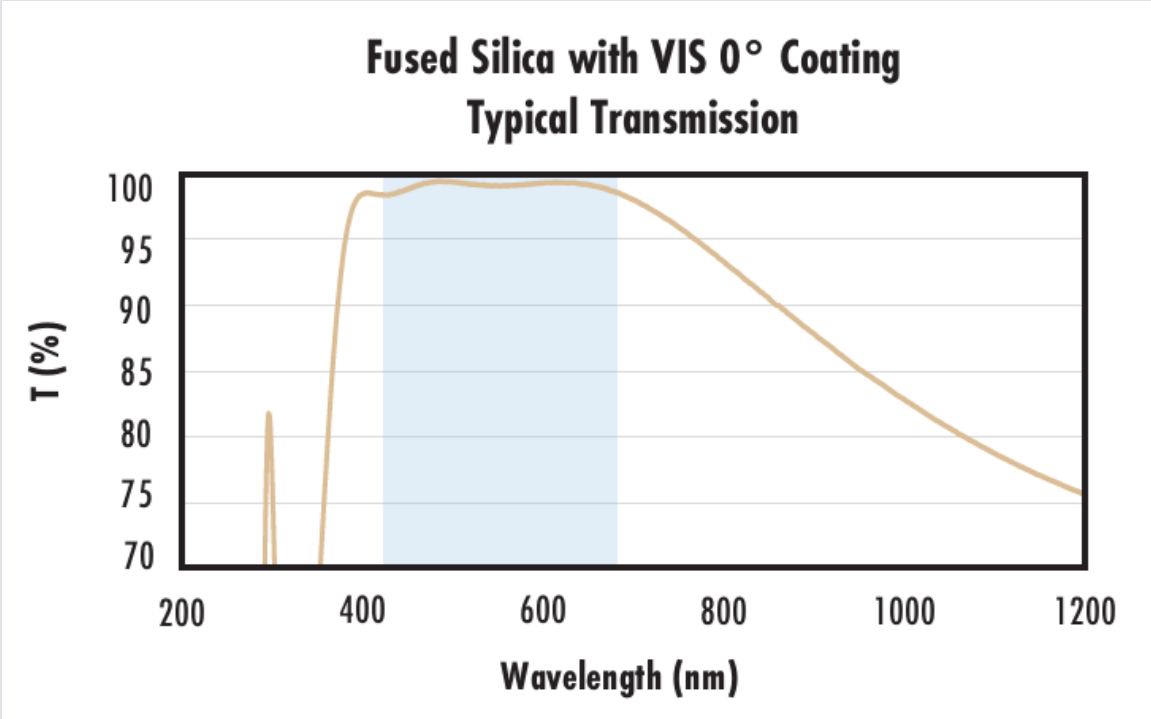
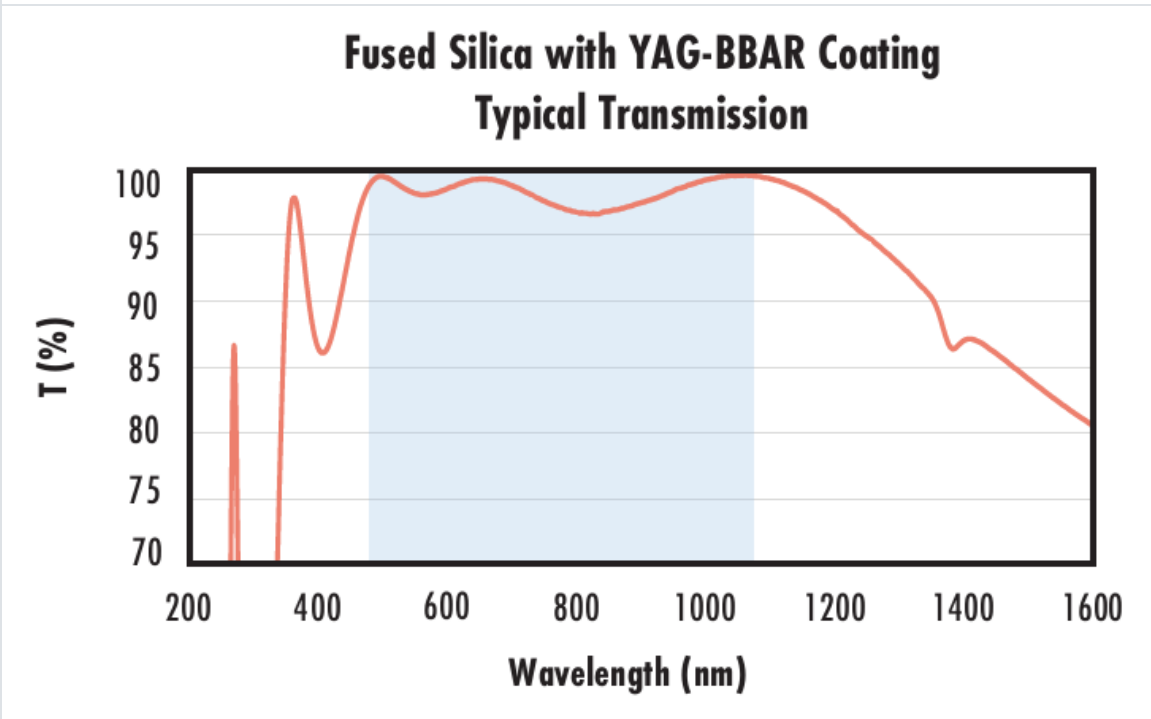
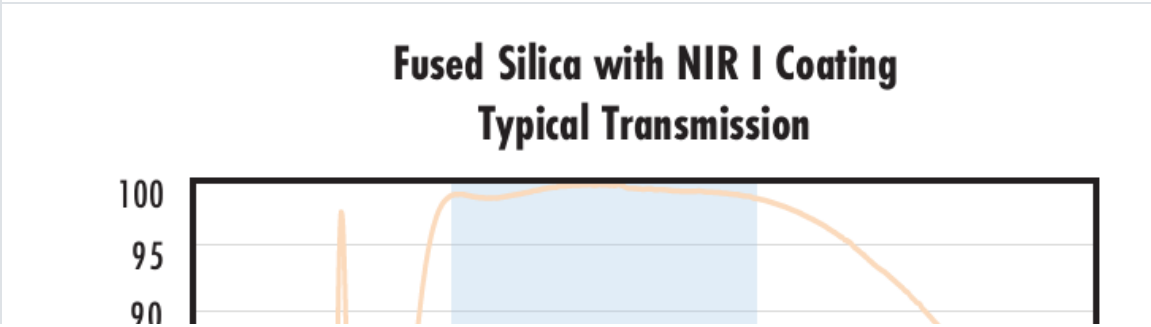
PRODUCT DETAILS

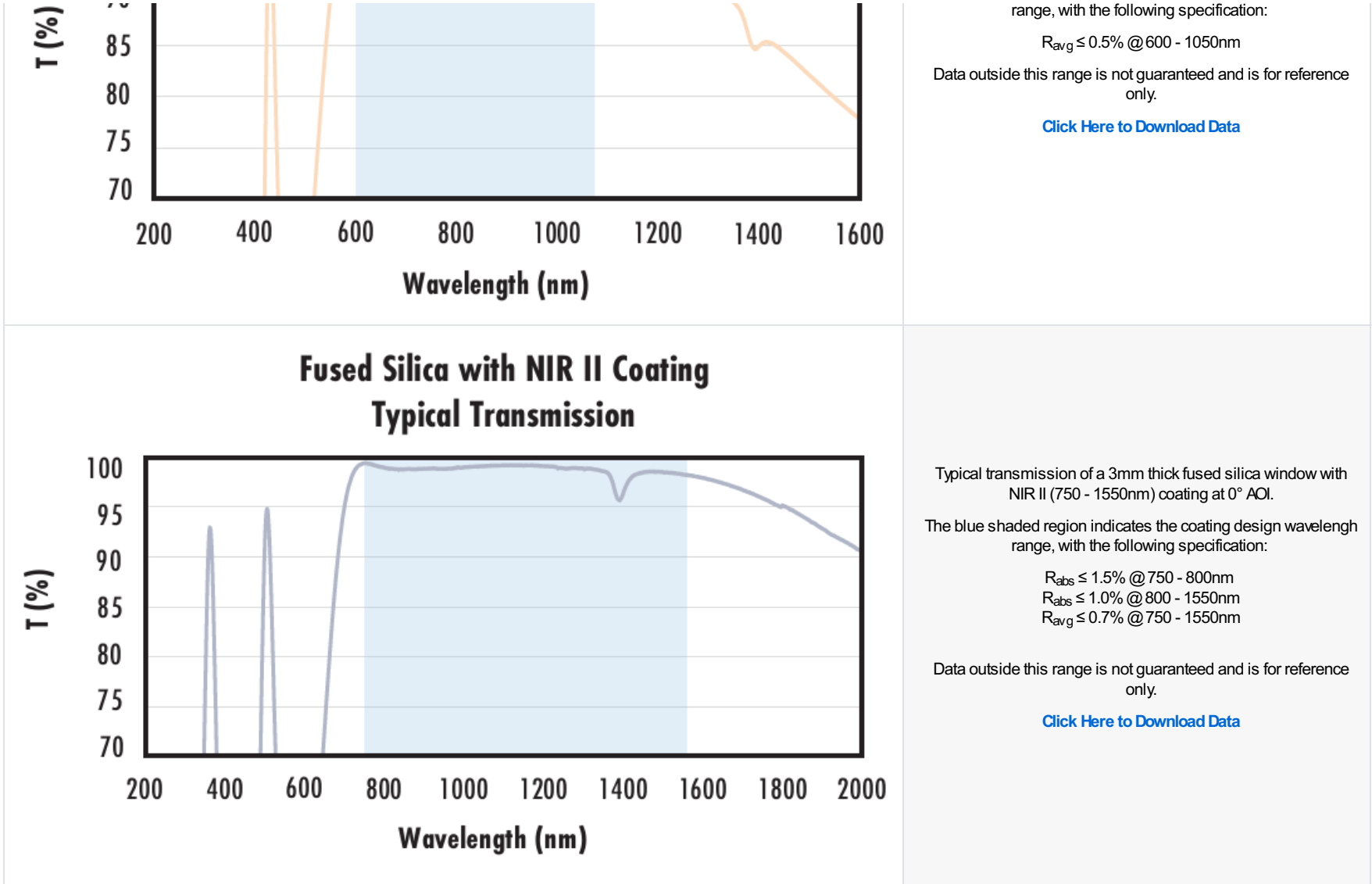
- AR Coated to Provide <1.0% Reflection per Surface for 500 - 1100nm
 - Precision Fused Silica Substrate
 - Various Coating Options: [Uncoated](#), [MgF₂](#), [UV-AR](#), [UV-VIS](#), [VIS-EXT](#), [VIS-NIR](#), [VIS 0°](#), [NIR I](#), and [NIR II](#)
- TECHSPEC® UV Fused Silica Plano-Convex (PCX) Lenses YAG-BBAR Coated feature precision specifications and a [variety of coating options](#) on a broadband substrate. Fused Silica is commonly used in applications from the Ultraviolet (UV) through the Near-Infrared (NIR). Its low index of refraction, low coefficient of thermal expansion, and low inclusion content make it ideal for laser applications and harsh environmental conditions. TECHSPEC® UV Fused Silica Plano-Convex (PCX) Lenses YAG-BBAR Coated feature industry leading diameter and centration specifications, making them ideal for integration into demanding imaging and targeting applications. These lenses are YAG-BBAR coated and feature less than 0.25% reflection at common Nd:YAG laser wavelengths of 532nm and 1064nm.

TECHNICAL INFORMATION

| FUSED SILICA | |
|-----------------------|--|
| Uncoated Fused Silica | |

| | |
|--|---|
| <div>Uncoated Fused Silica</div> <div>Typical Transmission</div>  | <p>Typical transmission of a 3mm thick, uncoated fused silica window across the UV - NIR spectra.</p> <p>Click Here to Download Data</p> |
| <div>Fused Silica with MgF₂ Coating</div> <div>Typical Transmission</div>  | <p>Typical transmission of a 3mm thick fused silica window with MgF₂ (400-700nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p>$R_{avg} \leq 1.75\% @ 400 - 700\text{nm (N-BK7)}$</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p>Click Here to Download Data</p> |
| <div>Fused Silica with UV-AR Coating</div> <div>Typical Transmission</div>  | <p>Typical transmission of a 3mm thick fused silica window with UV-AR (250-425nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p>$R_{abs} \leq 1.0\% @ 250 - 425\text{nm}$ $R_{avg} \leq 0.75\% @ 250 - 425\text{nm}$ $R_{avg} \leq 0.5\% @ 370 - 420\text{nm}$</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p>Click Here to Download Data</p> |
| <div>Fused Silica with UV-VIS Coating</div> <div>Typical Transmission</div>  | <p>Typical transmission of a 3mm thick fused silica window with UV-VIS (250-700nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p>$R_{abs} \leq 1.0\% @ 350 - 450\text{nm}$ $R_{avg} \leq 1.5\% @ 250 - 700\text{nm}$</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p>Click Here to Download Data</p> |
| <div>Fused Silica with VIS-EXT Coating</div> <div>Typical Transmission</div>  | |

| | |
|---|--|
|  | <p>Typical transmission of a 3mm thick fused silica window with VIS-EXT (350-700nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p>$R_{avg} \leq 0.5\% @ 350 - 700nm$</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p>Click Here to Download Data</p> |
| <p>Fused Silica with VIS-NIR Coating Typical Transmission</p>  | <p>Typical transmission of a 3mm thick fused silica window with VIS-NIR (400-1000nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p>$R_{abs} \leq 0.25\% @ 880nm$ $R_{avg} \leq 1.25\% @ 400 - 870nm$ $R_{avg} \leq 1.25\% @ 890 - 1000nm$</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p>Click Here to Download Data</p> |
| <p>Fused Silica with VIS 0° Coating Typical Transmission</p>  | <p>Typical transmission of a 3mm thick fused silica window with VIS 0° (425-675nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p>$R_{avg} \leq 0.4\% @ 425 - 675nm$</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p>Click Here to Download Data</p> |
| <p>Fused Silica with YAG-BBAR Coating Typical Transmission</p>  | <p>Typical transmission of a 3mm thick fused silica window with YAG-BBAR (500-1100nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p>$R_{abs} \leq 0.25\% @ 532nm$ $R_{abs} \leq 0.25\% @ 1064nm$ $R_{avg} \leq 1.0\% @ 500 - 1100nm$</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p>Click Here to Download Data</p> |
| <p>Fused Silica with NIR I Coating Typical Transmission</p>  | <p>Typical transmission of a 3mm thick fused silica window with NIR I (600 - 1050nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength</p> |



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](#).