

LT-APO/VIO/0.81

Art.Nr.: 1014313

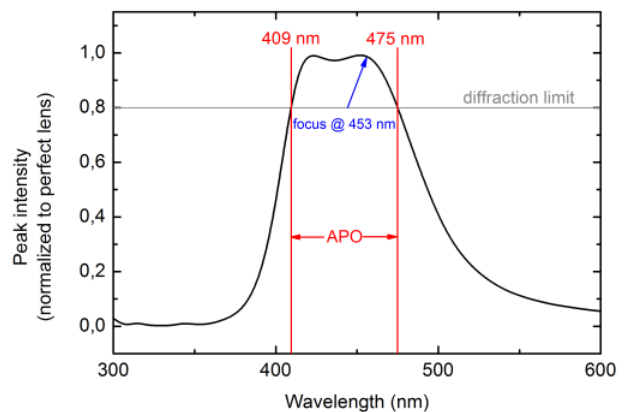
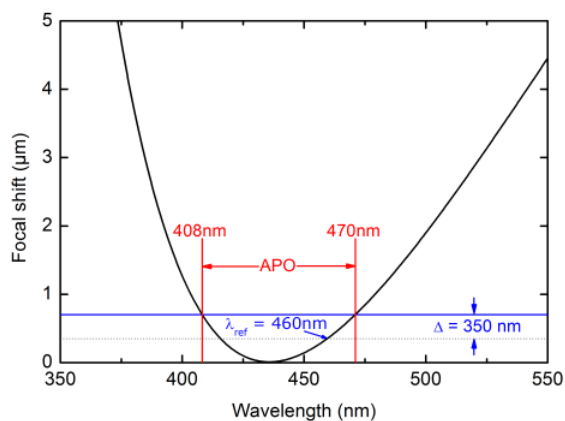
Technical Specifications

Optical Data	
clear aperture	4.7 mm
focal length	2.9 mm
numerical aperture(NA)	0.81
working distance	0.67 mm (1.40 mm) ⁽²⁾
Spectral Performance	
AR coating (> 80% transmission)	400 .. 1000 nm ⁽³⁾
apochromatic range (df < +/- delta)	408 .. 470 nm ⁽¹⁾
Compatibility	
environment	low temperature, high magnetic fields, high vacuum
compatible setups	CFM I, AFM/CFM, attoDRY800
suitable broadband collimator	RT-APO/VIO
Size and Dimensions	
diameter	24 mm
length	48.35 mm
weight	43 g

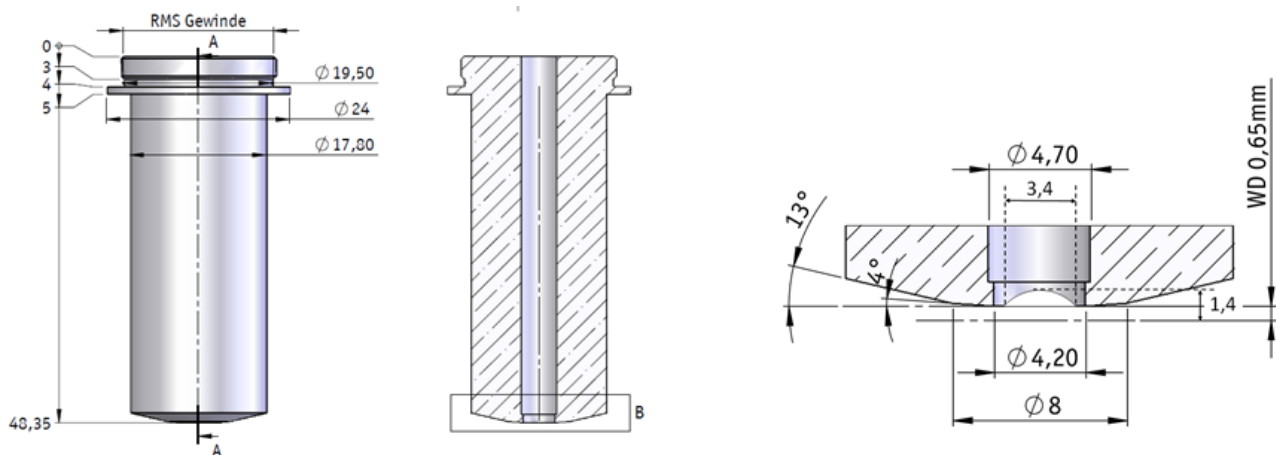


- ⁽¹⁾ df: chromatic focal shift, $\Delta f = n \cdot \lambda_{\text{ref}} / (2 \cdot NA^2)$; depth of focus, n: refractive index, λ_{ref} : wavelength used to define focal plane with max. Δf
⁽²⁾ Possible use with solid immersion lenses: half-ball radius < 0.65 (0.70) mm for unlimited lateral displacement or half-ball radius < 1.40 mm for coaxial approach only
⁽³⁾ glass transmission: see respective objective data sheets

Simulation Data on Chromatic Performance



Technical Drawings



LT-APO/VIO/0.81/xs

Art.Nr.: 1014323

Technical Specifications

Optical Data	
clear aperture	4.7 mm
focal length	2.9 mm
numerical aperture(NA)	0.81
working distance	0.67 mm (1.40 mm) ⁽²⁾
Spectral Performance	
AR coating (> 80% transmission)	400 .. 1000 nm ⁽³⁾
apochromatic range (df < +/- delta)	408 .. 470 nm ⁽¹⁾
Compatibility	
environment	low temperature, high magnetic fields, high vacuum
compatible setups	CFM I, AFM/CFM, attoDRY800
suitable broadband collimator	RT-APO/UVA-VIS
Size and Dimensions	
diameter	18.5 mm
length	50.35 mm
weight	43 g

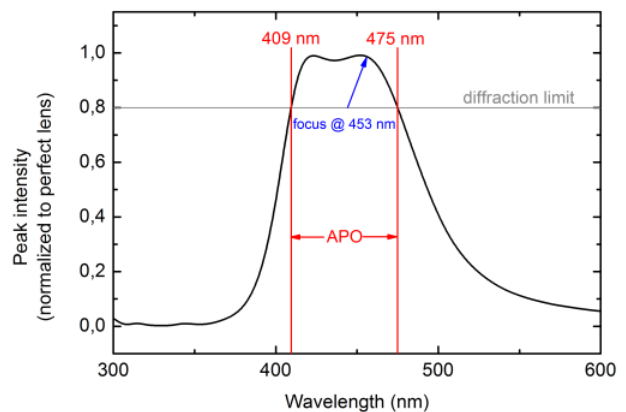
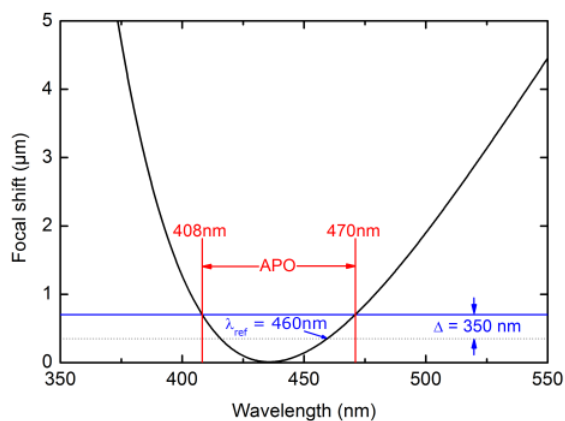


⁽¹⁾ df: chromatic focal shift, $\Delta f = n \cdot \lambda_{\text{ref}} / (2 \cdot \text{NA}^2)$; depth of focus, n: refractive index, λ_{ref} : wavelength used to define focal plane with max. Δf

⁽²⁾ Possible use with solid immersion lenses: half-ball radius < 0.65 (0.70) mm for unlimited lateral displacement or half-ball radius < 1.40 mm for coaxial approach only

⁽³⁾ glass transmission: see respective objective data sheets

Simulation Data on Chromatic Performance



Technical Drawings

