

LT-APO/NIR/0.81

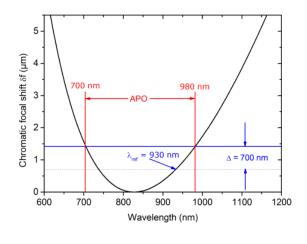
Technical Specifications

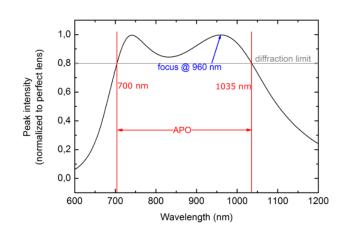
Optical Data	
clear aperture	4.7 mm
focal length	2.93 mm
numerical aperture(NA)	0.81
working distance	0.70 mm (1.40 mm) ⁽²⁾
Spectral Performance	
AR coating (> 80% trasnmission)	400 1000 nm
apochromatic range (df < +/- delta)	700980 nm ⁽¹⁾
Compatibility	
environment	low temperature, high magnetic fields, high vacuum
compatible setups	CFM I, AFM/CFM, attoDRY800
suitable broadband collimator	RT-APO/VIS-NIR/0.13, RT-APO/VIS-NIR/0.13
Size and Dimensions	
diameter	24 mm
length	48.35 mm
weight	43 g



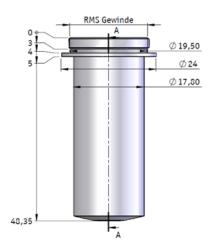
⁽¹⁾ df: chromatic focal shift, delta = n* lambdaref / (2*NA2): depth of focus, n: refractive index, lambdaref: wavelength used to define focal plane with max. delta

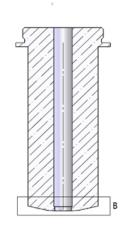
Simulation Data on Chromatic Performance

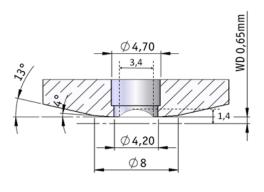




Technical Drawings









⁽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



LT-APO/NIR/0.81/xs

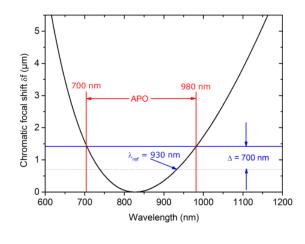
Technical Specifications

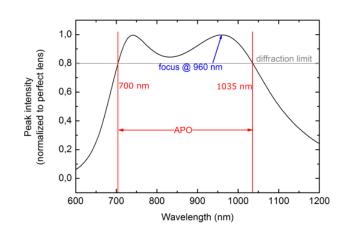
Optical Data		
clear aperture	4.7 mm	
focal length	2.93 mm	
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working distance	0.70 mm (1.40 mm) ⁽²⁾	
Spectral Performance		
AR coating (> 80% trasnmission)	400 1000 nm	
apochromatic range (df < +/- delta)	700980 nm ⁽¹⁾	
Compatibility		
environment	low temperature, high magnetic fields, high vacuum	
compatible setups	CFM I, AFM/CFM, attoDRY800	
suitable broadband collimator	RT-APO/VIS-NIR/0.13, RT-APO/VIS-NIR/0.13	
Size and Dimensions		
diameter	18.5 mm	
length	50.35 mm	
weight	43 g	



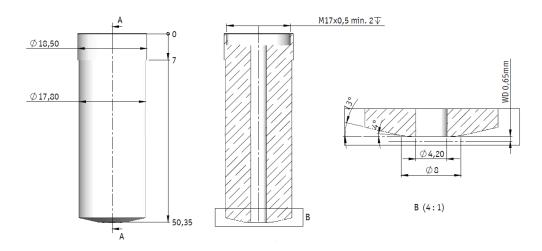
⁽¹⁾ df: chromatic focal shift, delta = n* lambdaref / (2*NA2): depth of focus, n: refractive index, lambdaref: wavelength used to define focal plane with max. delta

Simulation Data on Chromatic Performance





Technical Drawings





⁽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