

# LT-APO/IR/0.81: low temperature compatible, apochromatic objective

1012810

## Technical Specifications

Optical Data	
clear aperture [mm]	4.7
focal length [mm]	2.9
numerical aperture(NA)	0.81
working distance	0.67 mm (1.40 mm)
Spectral Performance	
AR coating (> 80% transmission)	600 .. 1600 [nm]
apochromatic range (df < +/- delta) [nm]	985 .. 1350
Compatibility	
environment	ultra-high vacuum low temperature high magnetic fields
compatible setups	attoCFM I, attoDRY800, AFM/CFM
Size and Dimensions	
diameter	24 mm
length	48.35 mm
weight	43 g



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



