

# LT-APO/LWD/NIR/0.63: low temperature compatible, apochromatic objective

1013375

## Technical Specifications

Optical Data	
clear aperture [mm]	4.7
focal length [mm]	3.73
numerical aperture(NA)	0.63
working distance	5.0 mm
Spectral Performance	
AR coating (> 80% transmission) 400 .. 1000 [nm]	
apochromatic range (df < +/- delta) [nm]	725 .. 970
Compatibility	
environment	ultra-high vacuum high magnetic fields low temperature
compatible setups	attoCFM I/cust, attoDRY800, AFM/CFM/cust
Size and Dimensions	
diameter	28 mm
length	81 mm
weight	approx. 100 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.  $\Delta$



