

# LT-APO/633-RAMAN/0.81

Art.Nr.: 1015093

## Technical Specifications

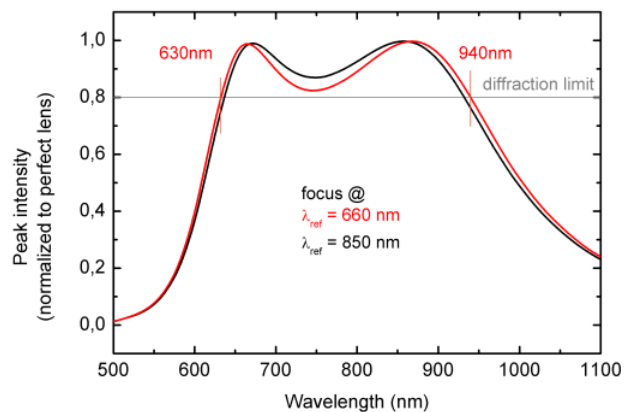
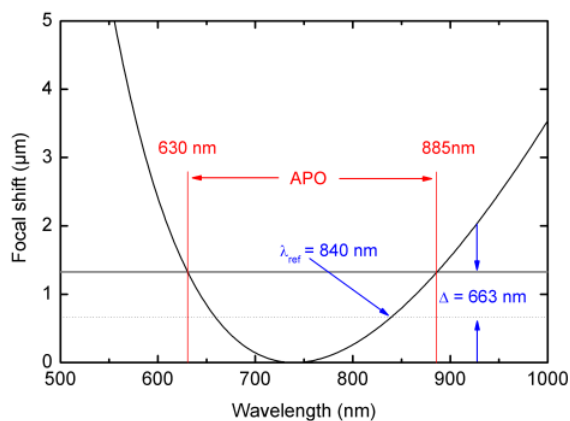
Optical Data	
clear aperture	4.7 mm
focal length	2.89 mm
numerical aperture(NA)	0.81
working distance	0.67 mm (1.40 mm) <sup>(2)</sup>
Spectral Performance	
AR coating (> 80% transmission)	400 .. 1000 nm
apochromatic range (df < +/- delta)	632 .. 885 nm <sup>(1)</sup>
Compatibility	
environment	low temperature, high magnetic fields, high vacuum
compatible setups	CFM I, AFM/CFM, attoDRY800
suitable broadband collimator	RT-APO/VIS-NIR/0.13
Size and Dimensions	
diameter	24 mm
length	48.35 mm
weight	43 g



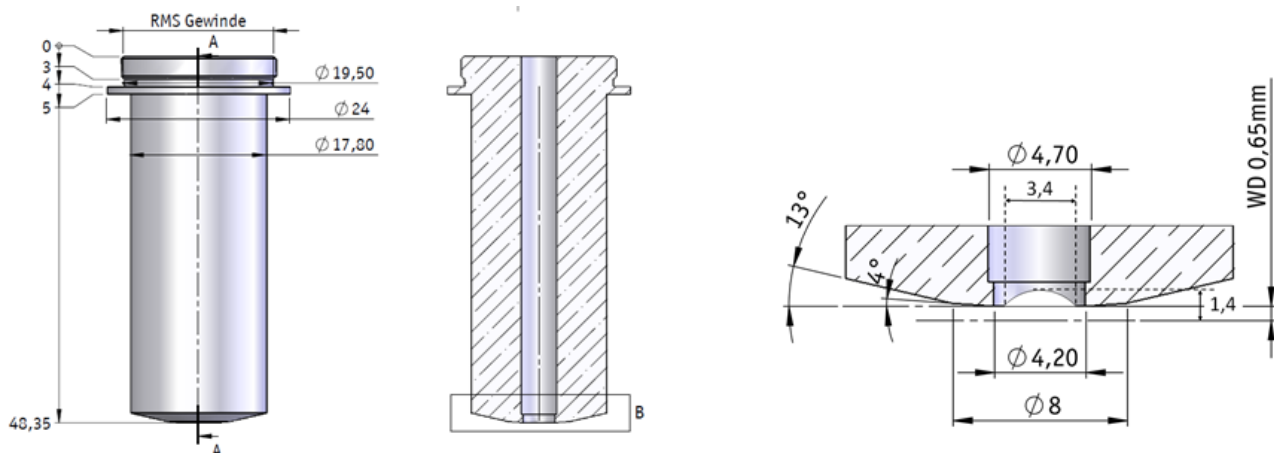
<sup>(1)</sup> df: chromatic focal shift,  $\Delta f = n \cdot \lambda_{\text{ref}} / (2 \cdot NA^2)$ ; depth of focus, n: refractive index,  $\lambda_{\text{ref}}$ : wavelength used to define focal plane with max.  $\Delta f$

<sup>(2)</sup> 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

## Simulation Data on Chromatic Performance



## Technical Drawings



# LT-APO/633-RAMAN/0.81/xs

Art.Nr.: 1015094

## Technical Specifications

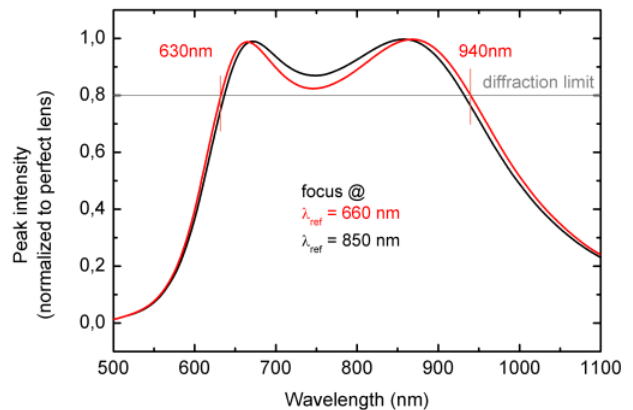
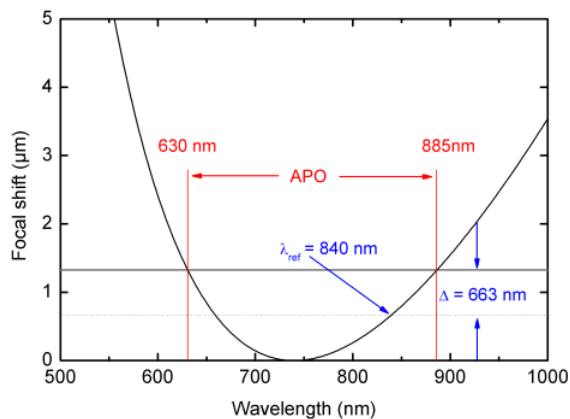
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