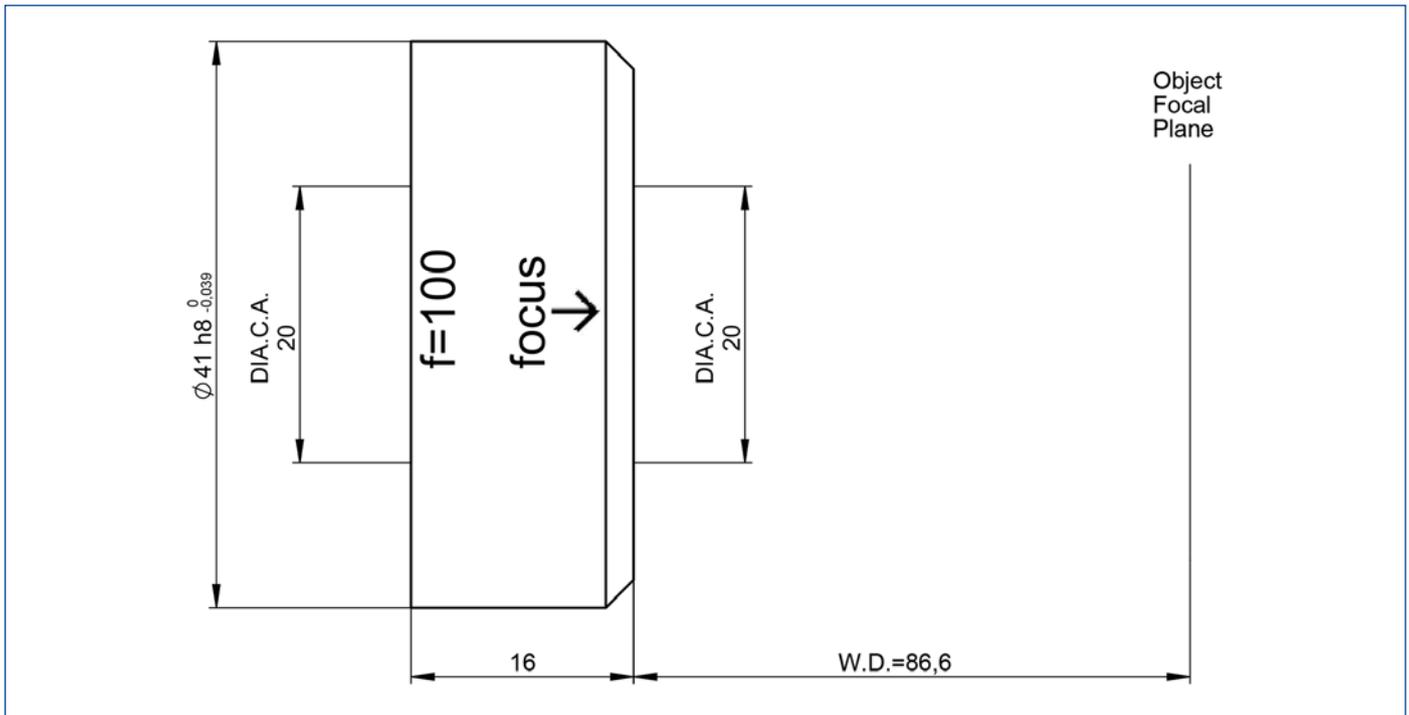


## S6ASS5300/292

focusing lens for high power laser at 515 nm - 545 nm



outline drawing

### specifications

article number	S6ASS5300/292	spot radius [ $\mu\text{m}$ ] <sup>3)</sup>	2.70
design wavelength [nm]	532	LIDT (coating) [ $\text{J}/\text{cm}^2$ ]	2.5 (1ns pulse at 50Hz)
effective focal length [mm]	99.7	total transmission [%]	98
working distance [mm]	86.7	total number of lenses	3
clear input aperture [mm]	20.0	lens material	fused silica
clear output aperture [mm]	20.0	diameter [mm]	41
max. input beam diameter [mm]	18.0	length [mm]	16.0
wavefront error <sup>1)</sup>	$< \lambda/10$ for $1/e^2$ diameter <sup>2)</sup> of 18.0	weight [kg]	not yet weighed

<sup>1)</sup> Wavefront error peak to valley on axis proved by design

<sup>2)</sup> beam diameter vignettted at  $1/e^2$

<sup>3)</sup> spot radius in  $\mu\text{m}$  at 86% level for a Gaussian laser beam ( $M^2=1$ ), with 18.0 mm diameter at  $1/e^2$ , clipped at  $1/e^2$

LIDT = Laser Induced Damage Threshold, valid for the coating at design wavelength and gaussian intensity profil