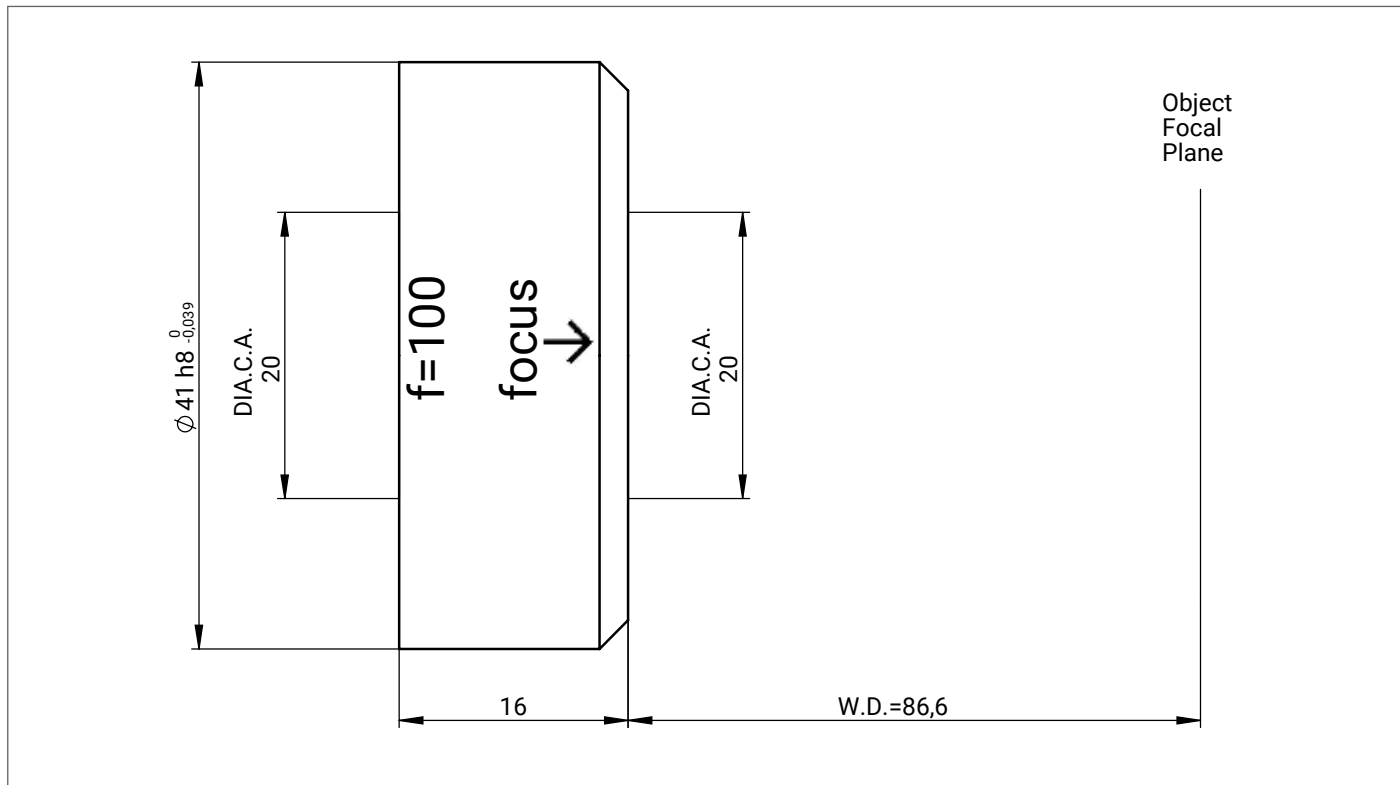


# DATA SHEET

## S6ASS5300-292

### FOCUSING LENS FOR STANDARD LASER AT 515 - 545 nm

#### OUTLINE DRAWING



#### SPECIFICATIONS

article number	S6ASS5300-292	spot radius [ $\mu\text{m}$ ] <sup>3)</sup>	2.7
design wavelength [nm]	532	LIDT (coating) [ $\text{J}/\text{cm}^2$ ]	2.5 $\text{J}/\text{cm}^2$ per 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]	41.0
max. input beam diameter [mm]	18.0	length [mm]	16.0
wavefront error <sup>1)</sup>	<1/10 for $1/e^2$ diameter <sup>2)</sup> of 18.0	weight [kg]	0.1
<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			

All information contained in this data sheet is for information purposes only and is not binding. The content is subject to change at any time without notification, all information without guarantee. We reserve the right to make constructional changes in the course of product improvement. Copyright © Sill Optics GmbH • All rights reserved