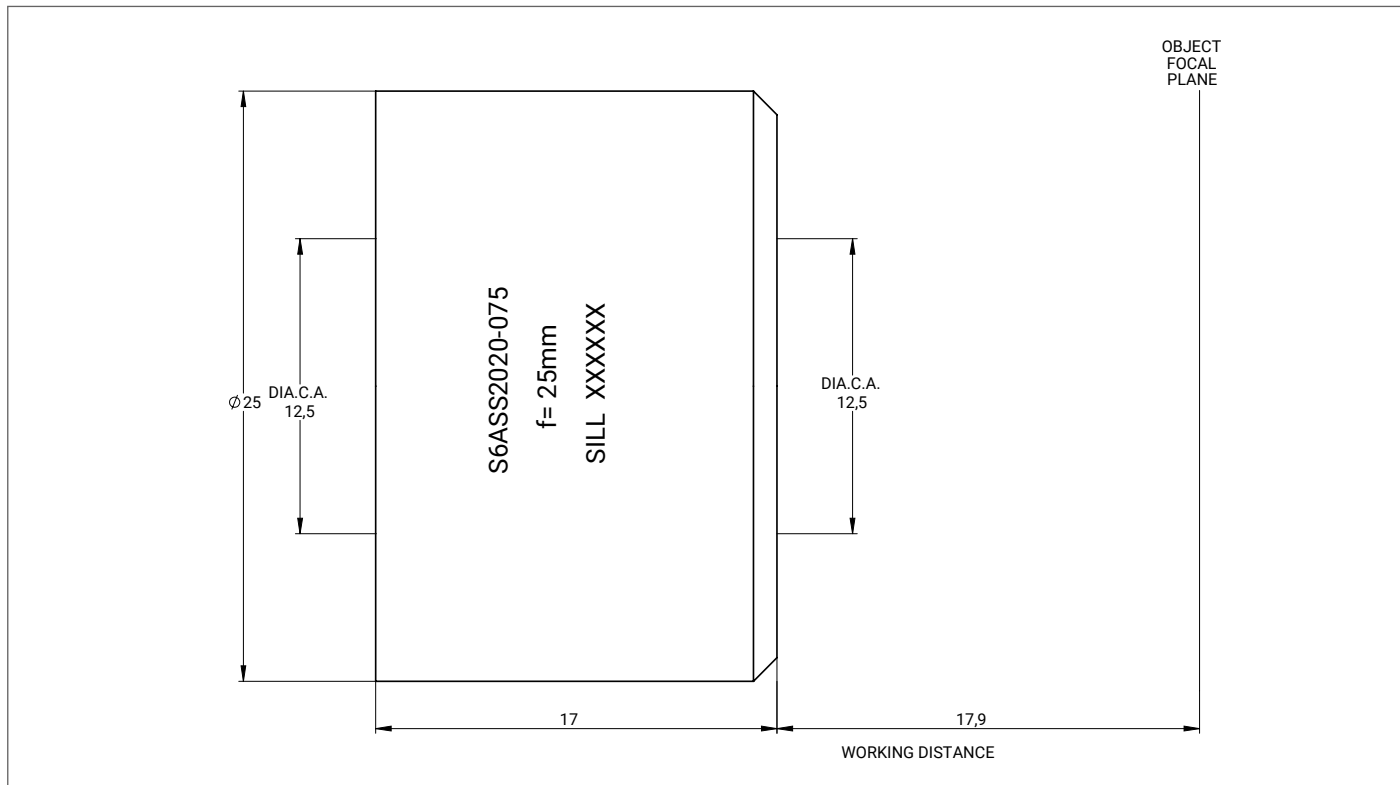


# DATA SHEET

## S6ASS2020-075

### FOCUSING LENS FOR STANDARD LASER AT 355 nm

#### OUTLINE DRAWING



#### SPECIFICATIONS

article number	S6ASS2020-075	spot radius [ $\mu\text{m}$ ] <sup>3)</sup>	0.8
design wavelength [nm]	355	LIDT (coating) [ $\text{J}/\text{cm}^2$ ]	1.0 $\text{J}/\text{cm}^2$ per 1ns pulse at 50Hz
effective focal length [mm]	25.4	total transmission [%]	> 98
working distance [mm]	17.9	total number of lenses	3
clear input aperture [mm]	12.5	lens material	fused silica
clear output aperture [mm]	12.5	diameter [mm]	25.0
max. input beam diameter [mm]	12.5	length [mm]	17.0
wavefront error <sup>1)</sup>	<1/10 for 1/e <sup>2</sup> diameter <sup>2)</sup> of 10.5	weight [kg]	0.02
<sup>1)</sup> Wavefront error peak to valley on axis proved by design			
<sup>2)</sup> beam diameter vignetted at 1/e <sup>2</sup>			
<sup>3)</sup> spot radius in $\mu\text{m}$ at 86% level for a Gaussian laser beam ( $M^2=1$ ), with 10.5 mm diameter at 1/e <sup>2</sup> , clipped at 1/e <sup>2</sup>			
LIDT = Laser Induced Damage Threshold, valid for the coating at design wavelength and gaussian intensity profil			

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