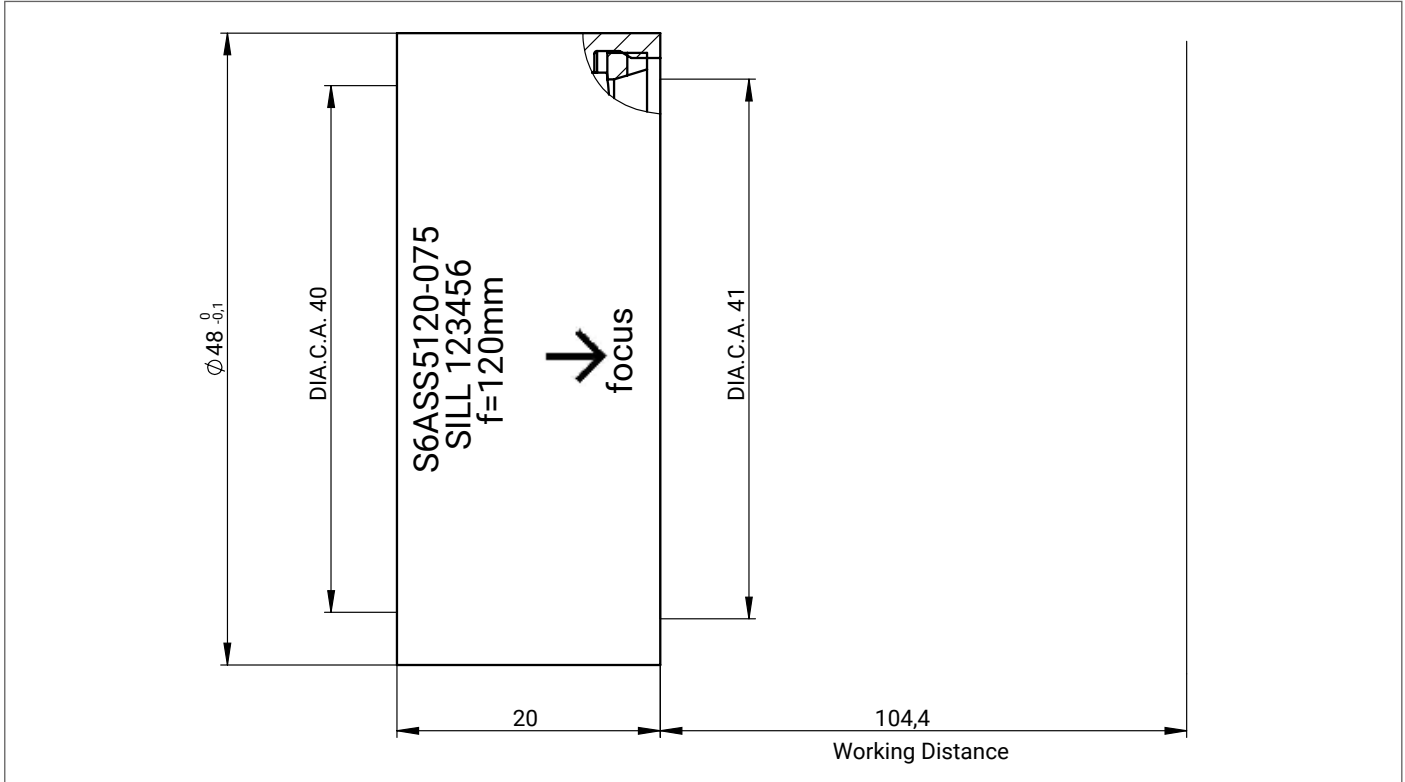


DATA SHEET

S6ASS5120-075

FOCUSING LENS FOR STANDARD LASER AT 355 nm

OUTLINE DRAWING



SPECIFICATIONS

article number	S6ASS5120-075	spot radius [μm] ³⁾	2.8
design wavelength [nm]	355	LIDT (coating) [J/cm ²]	1.0 J/cm ² per 1ns pulse at 50Hz
effective focal length [mm]	114.4	total transmission [%]	> 99
working distance [mm]	104.4	total number of lenses	2
clear input aperture [mm]	41.0	lens material	fused silica
clear output aperture [mm]	40.0	diameter [mm]	48.0
max. input beam diameter [mm]	38.0	length [mm]	20.0
wavefront error ¹⁾	<1/10 for 1/e ² diameter ²⁾ of 14.0	weight [kg]	0.1
¹⁾ Wavefront error peak to valley on axis proved by design			
²⁾ beam diameter vignettted at 1/e ²			
³⁾ spot radius in μm at 86% level for a Gaussian laser beam ($M^2=1$), with 14.0 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

Sill Optics GmbH • Johann-Höllfritsch-Straße 13 • D-90530 Wendelstein • +49 9129 9023-0 • Published: 5.09.2023