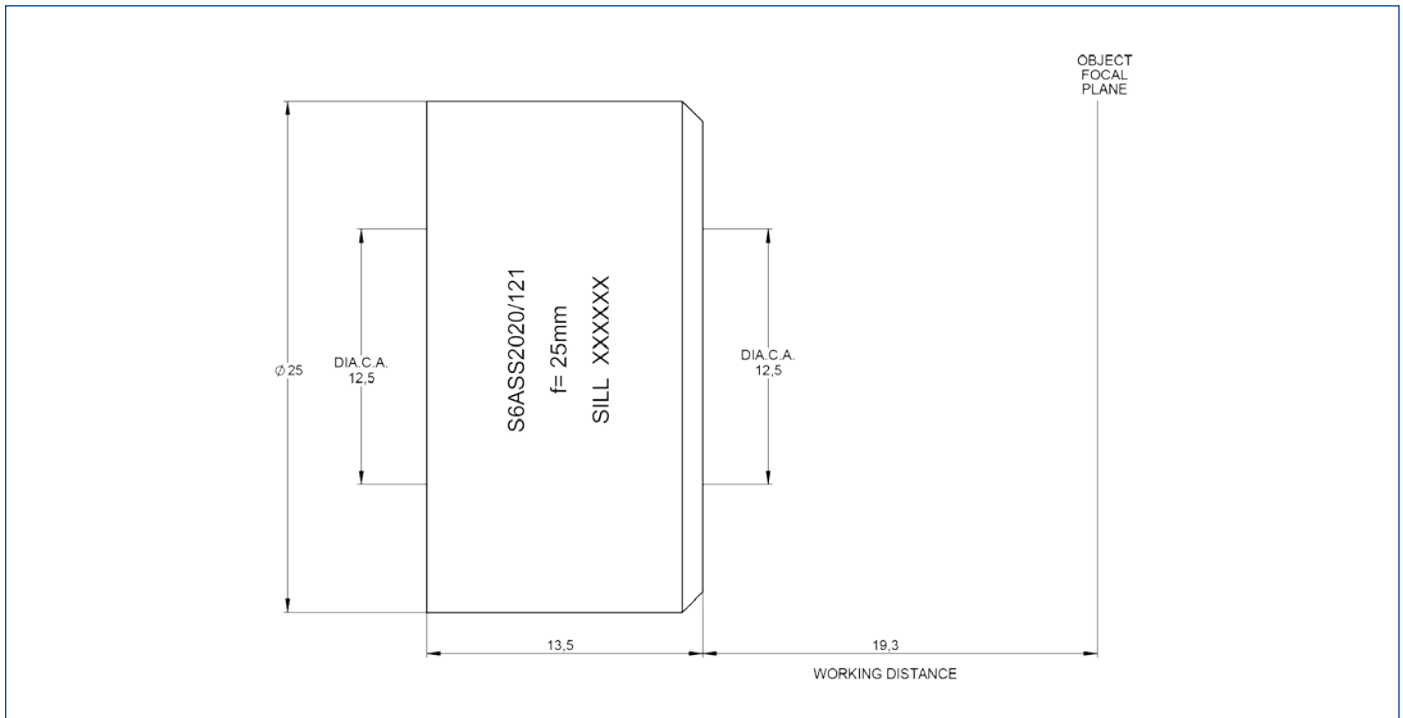


S6ASS2020/292

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



outline drawing

specifications

article number	S6ASS2020/292	spot radius [μm] ³⁾	1.20
design wavelength [nm]	532	LIDT (coating) [J/cm^2]	2.5 (1ns pulse at 50Hz)
effective focal length [mm]	24.5	total transmission [%]	98
working distance [mm]	19.3	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]	13.5
wavefront error ¹⁾	$< \lambda/10$ for $1/e^2$ diameter ²⁾ of 10.5	weight [kg]	not yet weighed

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 10.5 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