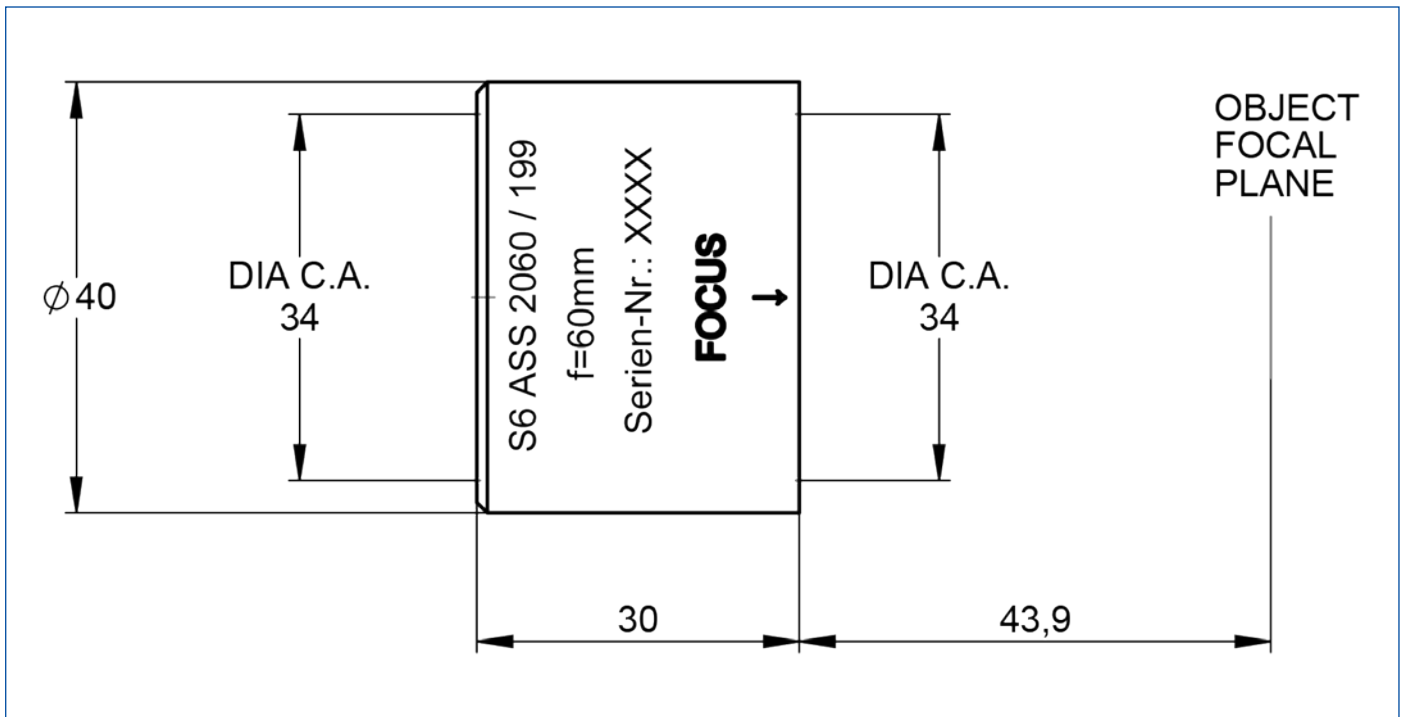


S6ASS2060/199

focusing lens for standard laser at 266 nm



outline drawing

specifications

article number	S6ASS2060/199	spot radius [μm] ³⁾	1.10
design wavelength [nm]	266	LIDT (coating) [J/cm^2]	5.0 (1ns pulse at 50Hz)
effective focal length [mm]	57.3	total transmission [%]	98
working distance [mm]	43.9	total number of lenses	3
clear input aperture [mm]	34.0	lens material	fused silica
clear output aperture [mm]	34.0	diameter [mm]	40.0
max. input beam diameter [mm]	32.0	length [mm]	30.0
wavefront error ¹⁾	$<\lambda/10$ for $1/e^2$ diameter ²⁾ of 13.0	weight [kg]	0.1

¹⁾ Wavefront error peak to valley on axis proved by design

²⁾ beam diameter vignetted at $1/e^2$

³⁾ spot radius in μm at 86% level for a Gaussian laser beam ($M^2=1$), with 13.0 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