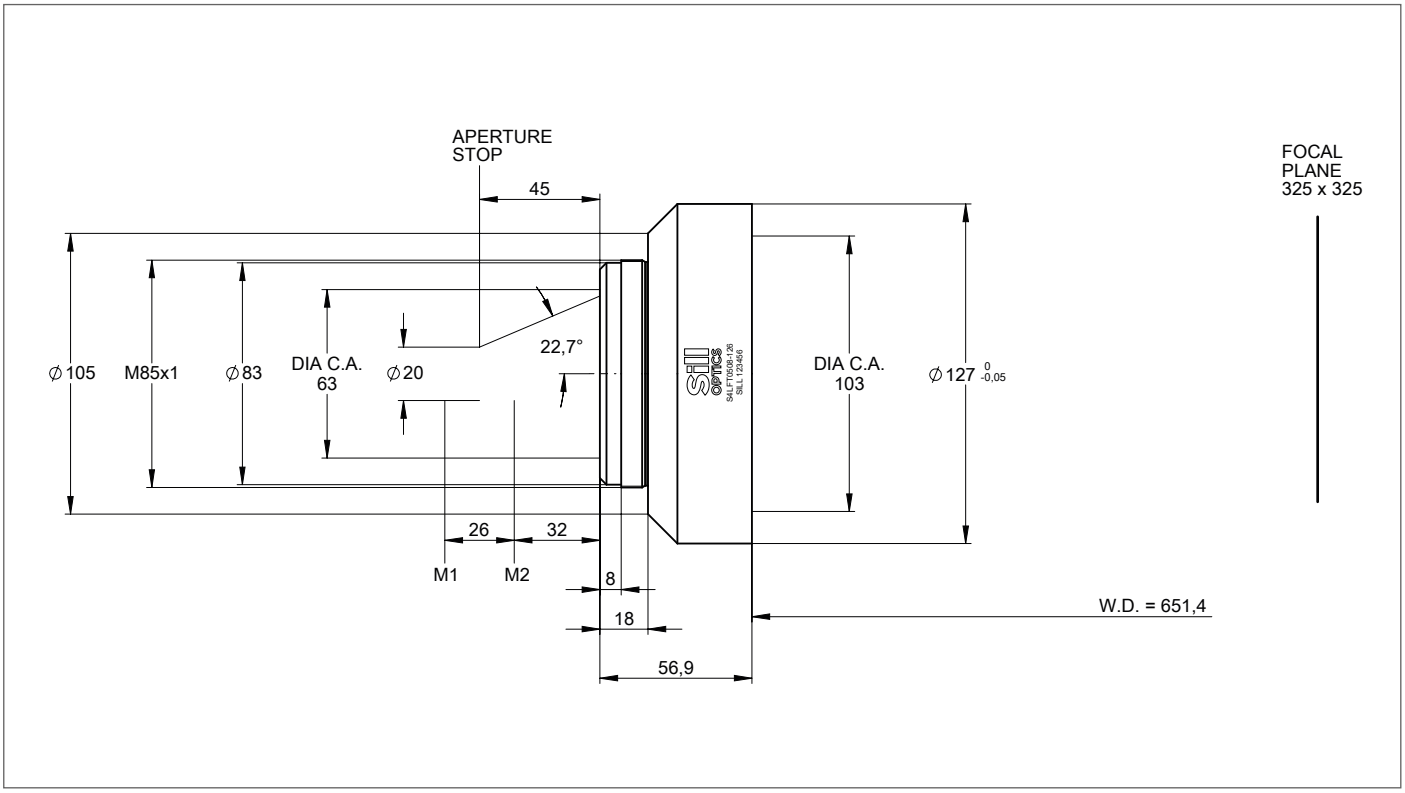
DATA SHEET

S4LFT0508-126

F-THETA
STANDARD - OPTICAL GLASS
1064 nm

OUTLINE DRAWING



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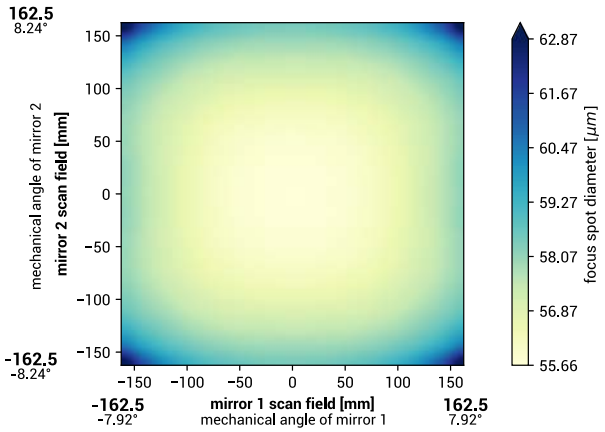
SPECIFICATIONS

article number	S4LFT0508-126
design wavelength [nm]	1064
effective focal length [mm]	569.7
working distance [mm]	651.4
max. entrance beam-Ø [mm]	20.0
aperture stop distance [mm]	45.0
scan area for a 2 mirror system with mirror distance from lens housing for mirror 2 / mirror 1 [mm x mm]	325 x 325 32.0 / 58.0
max. telecentricity error [°]	16.3
total transmission [%]	> 97
absorption [ppm]	not specified
lens material	optical glass
LIDT (coating)	5.0 J/cm² per 1ns pulse at 50Hz
SP and USP usable	no
weight [kg]	1.2
cover glass	---
cleanliness	not specified

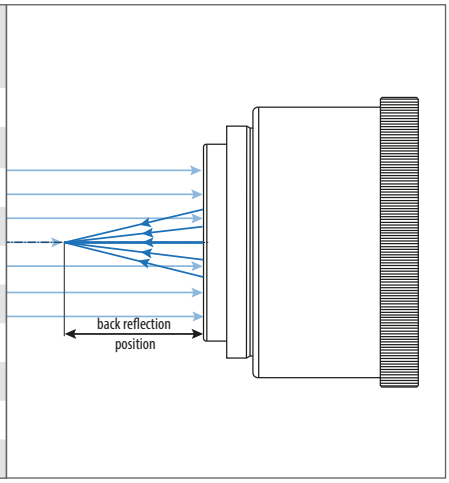
SPOT



spot diameter at 86.5 % level for a Gaussian beam ($M^2 = 1$) with 20.0 mm diameter at $1/e^2$, clipped at 20.0 mm
field size and mirror distances as given above for a two mirror scan system

BACK REFLECTION POSITIONS

back reflections [mm] for 1064
12.4
32.4
45.1
238.8
0.0
0.0
0.0
0.0
0.0
0.0



REMARKS

The stated values are based on a vignetting of less than 1 %.
Effective focal length and working distance have a tolerance of +/- 1.5 %.
Absorption tolerance +/- 25 %. Absorption may increase. Correct cleaning establishes original condition.

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