DATA SHEET 分新特光电

S4LFT3250/328

F-Theta standard - fused silica 1030 - 1090 nm







DATA SHEET (分新特光电 Sintec Optronics

specifications

specifications		
article number	S4LFT3250/328	
design wavelength [nm]	1064	
effective focal length [mm]	255.0	
max. entrance beam-Ø [mm]	15.0	20.0
optical scan angle $[\pm^\circ]$	26.0	18.5
scan length [mm] (1 mirror system)	226.3	162.7
aperture stop distance [mm]	32.5	46.5
working distance [mm]	321.3	321.4
scan area for a 2 mirror system with mirror distance from lens housing for	160 x 160	115 x 115
mirror 2 / mirror 1	24.0 / 41.0	34.0 / 59.0
max. telecentricity error [°]	10.7	7.0
total transmission [%]	> 97	
lens material	fused silica	
LIDT (coating)	5.0 J/cm ² per 1ns pulse at 50Hz	
SP and USP usable	yes	
weight [kg]	1.3	
cover glass	S4LPG2175/328	
absorption [ppm]	111	
cleanliness	not specified	

spot for 15.0 mm beam diameter





spot for 20.0 mm beam diameter +19.4% 80.0 6.64° 80 60 29.00 40 mirror 2 scan field [mm] 20 28.00

0

27.00 to -20 -40 26.00 -60 -80.0 -80 -75 -50 -25 ò 25 50 75 mirror 1 scan field [mm] -80.0 80.0 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

notes

The values given assume a vignetting of less than 1 %

Effective focal length and working distance have tolerance of +/- 1.5 %

Absorption tolerance +/- 25 %. Absorption may degrade over time, correct cleaning is able to reset to factory condition.