

13LT-500+90CM-685-17-H13-M60-C-6

Semi-telecentric Micro Line Generator



FEATURES

Semi-telecentric laser line with constant line length 15mm and approx. uniform intensity distribution.

Line length: 15 mm
Line width: 31 μm
Wavelength: 685 nm
Working distance: 493 mm

 Micro Line Generator for small laser line widths and high power density in the focal plane



DESCRIPTION

The laser diode beam source type 13LT-500+90CM-685-17-H13-M60-C-6 produces a semi-telecentric laser line with 15 mm line length. The intensity profile is approx. uniform in line direction. More precisely, it is Gaussian clipped by an aperture with an edge intensity of 75 %. The line width is constant along the laser line. Across the laser line the intensity distribution is Gaussian.

The laser has integrated electronics <u>type C</u> for control of the laser output power. The output power can be controlled using the <u>modulation input ports (TTL and analog)</u> or manually using the potentiometer.

For this laser type the working distance is fixed. A fine-adjustment of the distance between laser and target is recommended for fine-focusing in order to achieve minimal line width.

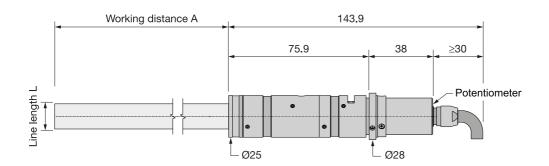


TECHNICAL DATA

13LT-500+90CM-685-17-H13-M60-C-6

Line profile Constant Intensity Distribution Line type Laser Micro Line Wavelength 685 ±10/-10 nm Laser output power 17 mV Laser safety class 3 Focussing range 493-493 mm Working distance 493 mm Line length 15 mm Line width 0.031 mm Rayleigh range 2.22 mm Edge intensity 75 % Diameter laser module 25/28 mm Module length 121.9 mm Installation length 644.9 mm Connector type Lumberg SV50 IEC 61076-2-10 Supply voltage 5 ± 0.2 v Max. current consumption 0.25 / Working temperature 0 - 40 ° c Modulation inputs Analog TT Input resistance 22 kOhm 22 kOhm Max. modulation frequency 100 kHz 100 kHz	Series		13LT	
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Modulation inputs Analog TT Input resistance 22 kOhm Max. modulation frequency 100 kHz 100 kHz	Max. current consumption	0.25 A		
Input resistance 22 kOhm 22 kOhm Max. modulation frequency 100 kHz 100 kHz	Working temperature	0 - 40 °C		
Max. modulation frequency 100 kHz 100 kHz	Modulation inputs	Analog	TTL	
	Input resistance	22 kOhm	22 kOhm	
	Max. modulation frequency	100 kHz	100 kHz	
Modulation delay ON/OFF $1/0.5 \mu\text{s}$ $2/1 \mu$	Modulation delay ON/OFF	1/0.5 μs	2/1 μs	
Rise / Fall time $3/2 \mu s$ $3/2 \mu$	Rise / Fall time	3/2 μs	3/2 μs	

Dimensions (for a complete dimensional drawing please refer to the downloads section)



DOWNLOADS



ACCESSORIES

9D-12 Screwdriver WS 1.2

PS051003E Power Supply 5 V

RELATED PRODUCTS

LASER MODULES SERIES 13LTM

- Semi-telecentric Macro Line
- Uniform intensity distribution
- Constant line length 15 mm
- Extended depth of focus

LASER MODULES

SERIES LNC-13LT

- Semi-telecentric Micro Line
- Uniform intensity distribution
- Constant line length 15 mm
- Low noise

LASER MODULES SERIES 5LT-1+25CM

- Compact semi-telecentric Micro Line
- Gaussian intensity distribution
- Constant line length ca. 4.8 mm

LASER MODULES SERIES 5LT-2+25CM

- Compact semi-telecentric Micro Line
- Gaussian intensity distribution
- Constant line length ca. 2 mm



LASER MODULES SERIES 5LT-1 Semi-telecentric Micro LineGaussian intensity distribution

Constant line length ca. 4.8 mm

LASER MODULES SERIES 5LT-2 Semi-telecentric Micro LineGaussian intensity distribution

Constant line length ca. 2 mm

This is a printout of the page https://sukhamburg.com/products/details/13LT-500 90CM-685-17-H13-M60-C-6 from 4/26/2024

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