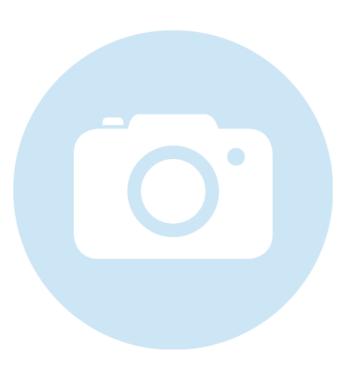
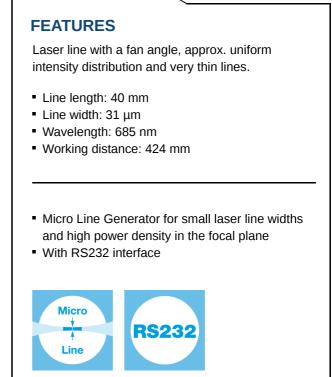
13LN165-S500+90CM-685-17-H13-M60-CS-7

Micro Line Generator with a fan angle





DESCRIPTION

The laser diode beam source type 13LN165-S500+90CM-685-17-H13-M60-CS-7 has a fan angle of 3.4° and approx. uniform intensity distribution along the laser line.

More precisely, it is Gaussian clipped by an aperture with an edge intensity of 75 %. Across the laser line the intensity distribution is Gaussian. The line width is constant along 60 % of the central are, outside this area the line width differs up to 30 %.

The laser has integrated electronics <u>type CS</u> for control of the laser output power and serial interface (RS232). The output power can be controlled using the <u>modulation input</u> <u>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

13LN165-S500+90CM-685-17-H13-M60-CS-7

Series	13LN165	
Order Code	13LN165-S500+90CM-685-17-H13-M60-CS-7	
Line profile	Constant Intensity Distribution	
Line type	Laser Micro Line	
Wavelength	685 +10/-10 nm	
Laser output power	17 mW	
Laser safety class	ЗВ	
Fan angle α	3.4 deg	
Focussing range	424-424 mm	
Working distance	424 mm	
Line length	40 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	575.9 mm	
Cable length	1.5 m	
Connector type	Lumberg SV70 IEC 61076-2-106	
Supply voltage	5 ± 0.2 V	
Max. current consumption	0.25 A	
Working temperature	0 - 40 °C	
Modulation inputs	Analog	TTL
Input resistance	9 kOhm	9 kOhm
Max. modulation frequency	0.001 kHz	250 kHz
Modulation delay ON/OFF	3000/3000 µs	0.5/0.2 μs
Rise / Fall time	200000/200000 µs	0.8/0.4 µs
Interface	RS232	

ACCESSORIES



9D-12

Screwdriver WS 1.2

PS051007E

Power Supply 5 V for laser modules with RS232 interface

RELATED PRODUCTS

LASER MODULES SERIES 13LNM

LASER MODULES SERIES LNC-13LN

LASER MODULES SERIES 13LR

LASER MODULES SERIES 5LM+25CM

LASER MODULES SERIES 5LP+25CM

LASER MODULES SERIES 5LM

LASER MODULES SERIES 5LP

- Micro Line Generator, small fan angle
- Uniform intensity distribution
- Extended depth of focus
- Micro Line, small fan angle
- Uniform intensity distribution
- Thin lines
- Low noise
- Micro Line Generator, fan angle
- Uniform intensity distribution
- Compact Micro Line, small fan angle
- Gaussian intensity distribution
- Compact Micro Line, large fan angle
- Gaussian intensity distribution
- Micro Line, small fan angle
- Gaussian intensity distribution
- Micro Line, large fan angle
- Gaussian intensity distribution



DATA SHEET

This is a printout of the page <u>https://sukhamburg.com/products/details/13LN165-S500_90CM-685-17-H13-M60-CS-7</u> from 5/8/2024

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