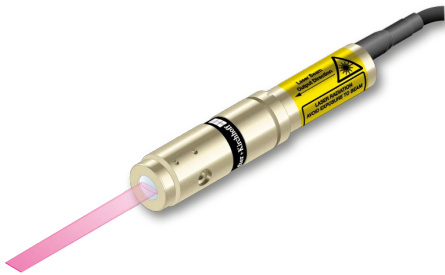


## 5LT-100-1+25CM-405-14-Y07-A7.5-B-4

Semi-telecentric compact Micro Line Generator



### FEATURES

Semi-telecentric compact laser line with constant line length of 4.8 mm.

- Line length: 4.8 mm
- Line width: 27  $\mu\text{m}$
- Wavelength: 405 nm
- Working distance: 96 mm

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



## DESCRIPTION

The laser diode beam source type 5LT-100-1+25CM-405-14-Y07-A7.5-B-4 produces a semi-telecentric laser line with 4.8 mm line length. The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 9 %. The line width is constant along the laser line. Across the laser line the intensity distribution is Gaussian.

The laser has integrated electronics [type B](#) for control of the laser output power. The output power can be controlled using the [modulation input port \(TTL\)](#) 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

5LT-100-1+25CM-405-14-Y07-A7.5-B-4

Series	5LT
Order Code	5LT-100-1+25CM-405-14-Y07-A7.5-B-4
Line profile	Gaussian Intensity Distribution
Line type	Laser Micro Line
Wavelength	405 +5/-5 nm
Laser output power	14 mW
Laser safety class	3B
Focussing range	96-96 mm
Working distance	96 mm
Line length	4.8 mm
Line width	0.027 mm
Rayleigh range	2.9 mm
Edge intensity	9 %
Diameter laser module	12 mm
Module length	60.7 mm
Installation length	186.7 mm
Cable length	1.5 m
Connector type	Lumberg SV40 IEC 61076-2-106
Supply voltage	12 ± 0.5 V
Max. current consumption	0.16 A
Working temperature	0 - 40 °C
Modulation inputs	TTL
Input resistance	110 kOhm
Max. modulation frequency	0.2 kHz
Modulation delay ON/OFF	500/500 µs
Rise / Fall time	10/20 µs

## DOWNLOADS

[921120000614.pdf](#)

## ACCESSORIES

9D-12 Screwdriver WS 1.2

PS120516E Power Supply 12 V

## RELATED PRODUCTS

### LASER MODULES SERIES 5LTM-1+25CM

- **Compact** semi-telecentric Macro Line
- Gaussian intensity distribution
- Constant line length ca. **4.8 mm**
- Extended depth of focus

### LASER MODULES SERIES 13LT

- Semi-telecentric Micro Line
- Uniform intensity distribution
- Constant line length **15 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 Line
- Gaussian intensity distribution
- Constant line length ca. **4.8 mm**

### LASER MODULES SERIES 5LT-2

- Semi-telecentric Micro Line
- Gaussian intensity distribution
- Constant line length ca. **2 mm**

This is a printout of the page [https://sukhamburg.com/products/details/5LT-100-1\\_25CM-405-14-Y07-A7\\_5-B-4](https://sukhamburg.com/products/details/5LT-100-1_25CM-405-14-Y07-A7_5-B-4) from 4/25/2024

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