5LT-100-2+25CM-405-14-Y07-A7.5-B-4

Semi-telecentric compact Micro Line Generator

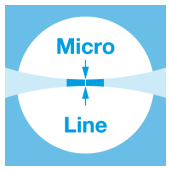


FEATURES

Semi-telecentric compact laser line with constant line length of 2.4 mm.

- Line length: 2.4 mm
- Line width: 12 µm
- 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-100-2+25CM-405-14-Y07-A7.5-B-4 produces a semi-telecentric laser line with 2.4 mm line length. In this case the line length is given on the 13.5%-level. The intensity profile is Gaussian in line direction and the line is truncated at 4.8 mm. 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-100-2+25CM-405-14-Y07-A7.5-B-4

Series	5LT
Order Code	5LT-100-2+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	2.4 mm
Line width	0.012 mm
Rayleigh range	0.593 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

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ACCESSORIES

9D-12	Screwdriver WS 1.2
PS120516E	Power Supply 12 V

RELATED PRODUCTS

LASER MODULES SERIES 5LTM-2+25CM

- **Compact** semi-telecentric Macro Line
- Gaussian intensity distribution
- Constant line length ca. **2 mm**
- Extended depth of focus

LASER MODULES SERIES LNC-5LTM-2

- Semi-telecentric Macro Line
- Gaussian intensity distribution
- Constant line length ca. **2 mm**
- Extended depth of focus
- Low noise

LASER MODULES SERIES 13LT

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

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-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**

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