5LTM-50-11+25CM-785-59-Q06-A8-S-6

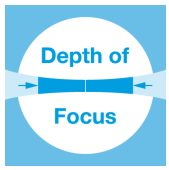
Semi-telecentric compact Macro Line Generator

FEATURES

Semi-telecentric compact laser line with constant line length of 4.3 mm and extended depth of focus.

- Line length: 4.3 mm
- Line width: 57 µm
- Wavelength: 785 nm
- Working distance: 39 mm
- Depth of focus: 8.75 mm

- Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 5LTM-50-11+25CM-785-59-Q06-A8-S-6 produces a semi-telecentric laser line with 4.3 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 approx. Gaussian.

The laser has integrated electronics type S for control of the laser output power. The output power can be controlled using the modulation input ports (TTL and analog) 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

5LTM-50-11+25CM-785-59-Q06-A8-S-6

Series	5LTM	
Order Code	5LTM-50-11+25CM-785-59-Q06-A8-S-6	
Line profile	Gaussian Intensity Distribution	
Line type	Laser Macro Line	
Wavelength	785 +10/-10 nm	
Laser output power	59 mW	
Laser safety class	3B	
Focussing range	39-39 mm	
Working distance	39 mm	
Line length	4.3 mm	
Line width	0.057 mm	
Depth of focus	8.75 mm	
Edge intensity	3 %	
Diameter laser module	12 mm	
Module length	66.1 mm	
Installation length	135.1 mm	
Cable length	1.5 m	
Connector type	Lumberg SV50 IEC 61076-2-106	
Supply voltage	5 ± 0.25 V	
Max. current consumption	0.25 A	
Working temperature	0 - 40 °C	
Modulation inputs	Analog	TTL
Input resistance	22 kOhm	22 kOhm
Max. modulation frequency	50 kHz	1000 kHz
Modulation delay ON/OFF	4/0.5 µs	0.05/0.05 µs
Rise / Fall time	5/4 µs	0.1/0.02 µs

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ACCESSORIES

9D-12	Screwdriver WS 1.2
PS051003E	Power Supply 5 V

RELATED PRODUCTS

LASER MODULES SERIES 5LT-2+25CM

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

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 13LTM

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

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 5LTM-1

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

LASER MODULES SERIES 5LTM-2

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

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