

5LTM-50-22+55CM-685-24-H13-A8-CS-7

Semi-telecentric Macro Line Generator



FEATURES

Semi-telecentric laser line with constant line length of 2.4 mm and extended depth of focus.

Line length: 2.4 mm
Line width: 27 µm
Wavelength: 685 nm
Working distance: 39 mm
Depth of focus: 1.91 mm

- Macro Line Generator for extended depth of focus
- With RS232 interface





DESCRIPTION

The laser diode beam source type 5LTM-50-22+55CM-685-24-H13-A8-CS-7 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 approx. Gaussian.

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 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

5LTM-50-22+55CM-685-24-H13-A8-CS-7

Order Code 5LTM-50-22+55CM-685-24+H13-A8-CS-7 Line profile Gaussian Intensity Distribution Line type Laser Macro Line Wavelength 685 +10/-10 nm Laser output power 24 mW Laser safety class 3B Focussing range 39-39 mm Working distance 39 mm Line length 2.4 mm Line width 0.027 mm Depth of focus 1.91 mm Edge intensity 15 % Diameter laser module 25/28 mm Module length 78.5 mm Installation 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 </th <th colspan="3">Series 5LTM</th>	Series 5LTM			
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Module length 78.5 mm Installation length 147.5 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 2000000/200000 μs 0.8/0.4 μs	Edge intensity	15 %		
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Cable length1.5 mConnector typeLumberg SV70 IEC 61076-2-106Supply voltage5 ± 0.2 VMax. current consumption0.25 AWorking temperature0 - 40 °CModulation inputsAnalogTTLInput resistance9 kOhm9 kOhmMax. modulation frequency0.001 kHz250 kHzModulation delay ON/OFF3000/3000 μs0.5/0.2 μsRise / Fall time200000/200000 μs0.8/0.4 μs	Module length	78.5 mm		
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Cable length	1.5 m		
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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	Max. current consumption	0.25 A		
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	Working temperature		0 - 40 °C	
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	Modulation inputs	Analog	TTL	
Modulation delay ON/OFF 3000/3000 μs 0.5/0.2 μs Rise / Fall time 200000/200000 μs 0.8/0.4 μs	Input resistance	9 kOhm	9 kOhm	
Rise / Fall time 200000/200000 μs 0.8/0.4 μs	Max. modulation frequency	0.001 kHz	250 kHz	
	Modulation delay ON/OFF	3000/3000 μs	0.5/0.2 μs	
Interface RS232	Rise / Fall time	200000/200000 μs	0.8/0.4 μs	
	Interface	RS232		

ACCESSORIES

9D-12 Screwdriver WS 1.2



13MK-25-36-10-F Mounting Console with flat base plate

13MK-25-36-10-M Mounting Console with base plate with dovetail

profile

PS051007E Power Supply 5 V for laser modules with RS232

interface

RELATED PRODUCTS

LASER MODULES SERIES 5LT-2 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+25CM ■ Compact semi-telecentric Macro Line

Gaussian intensity distribution

Constant line length ca. 2 mm

Extended depth of focus



This is a printout of the page https://sukhamburg.com/products/details/5LTM-50-22_55CM-685-24-H13-A8-CS-7 from 4/29/2024

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