5LTM-75-11+55CM-785-59-Q06-A8-C-6

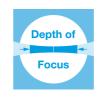
Semi-telecentric Macro Line Generator



FEATURES

Semi-telecentric laser line with constant line length of 4.8 mm and extended depth of focus.

- Line length: 4.8 mm
- Line width: 85 μm
- Wavelength: 785 nm
- Working distance: 68 mm
- Depth of focus: 19.7 mm
- Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 5LTM-75-11+55CM-785-59-Q06-A8-C-6 produces a semi-telecentric laser line with 4.8 mm line length and extended depth of focus. The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 3 %. 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 C</u> for control of the laser output power. 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-75-11+55CM-785-59-Q06-A8-C-6

Series		5LTM
Order Code	5LTM-75-11+55CM-785-59-Q06-A8-C-6	
Line profile	Gaussian Intensity Distribution	
Line type	Laser Macro Line	
Wavelength	785 +10/-10 nm	
Laser output power	59 mW	
Laser safety class	3В	
Focussing range	68-68 mm	
Working distance	68 mm	
Line length	4.8 mm	
Line width	0.085 mm	
Depth of focus	19.7 mm	
Edge intensity 3%		
Diameter laser module	25/28 mm	
Module length	78.5 mm	
Installation length	176.5 mm	
Cable length	1.5 m	
Connector type	Lumberg SV50 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	22 kOhm	22 kOhm
Max. modulation frequency	100 kHz	100 kHz
Modulation delay ON/OFF	1/0.5 µs	2/1 μs
Rise / Fall time	3/2 µs	3/2 µs

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	
PS051003E	Power Supply 5 V	
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 	



DATA SHEET

This is a printout of the page <u>https://sukhamburg.com/products/details/5LTM-75-11_55CM-785-59-Q06-A8-C-6</u> from 5/6/2024

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