#### 5LT-50-2+55CM-639-18-H18-A8-CS-7

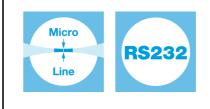
Semi-telecentric Micro Line Generator



#### FEATURES

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

- Line length: 2.4 mm
- Line width: 8 μm
- Wavelength: 639 nm
- Working distance: 45 mm
- Micro Line Generator for small laser line widths and high power density in the focal plane
- With RS232 interface



## DESCRIPTION

The laser diode beam source type 5LT-50-2+55CM-639-18-H18-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 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</u> <u>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**

5LT-50-2+55CM-639-18-H18-A8-CS-7

Series		5LT
Order Code	5LT-50-2+55CM-639-18-H18-A8-CS-7	
Line profile	Gaussian Intensity Distribution	
Line type	Laser Micro Line	
Wavelength	639 +10/-10 nm	
Laser output power	18 mW	
Laser safety class	3В	
Focussing range	45-45 mm	
Working distance	45 mm	
Line length	2.4 mm	
Line width	0.008 mm	
Rayleigh range	0.177 mm	
Edge intensity	40 %	
Diameter laser module	25/28 mm	
Module length	73.1 mm	
Installation length	148.1 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	200000/200000 μs	0.8/0.4 µs
Interface RS23		RS232

#### **DOWNLOADS**



<u>930412000106.pdf</u>

# ACCESSORIES

9D-12	Screwdriver WS 1.2
13MK-25-36-10-F	Mounting Console with flat base plate
13МК-25-36-10-М	Mounting Console with base plate with dovetail profile
PS051007E	Power Supply 5 V for laser modules with RS232 interface

# **RELATED PRODUCTS**

LASER MODULES SERIES 5LTM-2	<ul> <li>Semi-telecentric Macro Line</li> <li>Gaussian intensity distribution</li> <li>Constant line length ca. 2 mm</li> <li>Extended depth of focus</li> </ul>
LASER MODULES SERIES LNC-5LTM-2	<ul> <li>Semi-telecentric Macro Line</li> <li>Gaussian intensity distribution</li> <li>Constant line length ca. 2 mm</li> <li>Extended depth of focus</li> <li>Low noise</li> </ul>
LASER MODULES SERIES 13LT	<ul> <li>Semi-telecentric Micro Line</li> <li>Uniform intensity distribution</li> <li>Constant line length 15 mm</li> </ul>
LASER MODULES SERIES 5LT-1+25CM	<ul> <li>Compact semi-telecentric Micro Line</li> <li>Gaussian intensity distribution</li> <li>Constant line length ca. 4.8 mm</li> </ul>
LASER MODULES SERIES 5LT-1	<ul> <li>Semi-telecentric Micro Line</li> <li>Gaussian intensity distribution</li> <li>Constant line length ca. 48 mm</li> </ul>

Constant line length ca. 4.8 mm





LASER MODULES SERIES 5LT-2+25CM

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

This is a printout of the page <u>https://sukhamburg.com/products/details/5LT-50-2\_55CM-639-18-H18-A8-CS-7</u> from 4/19/2024

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