5LT-75-2+55CM-445-76-G02-A7.5-PS-7

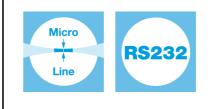
Semi-telecentric Micro Line Generator



FEATURES

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

- Line length: 2.4 mm
- Line width: 13 µm
- Wavelength: 445 nm
- Working distance: 74 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-75-2+55CM-445-76-G02-A7.5-PS-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 PS</u> with micro-controller 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

5LT-75-2+55CM-445-76-G02-A7.5-PS-7

Series		5LT
Order Code	5LT-75-2+55CM-445-76-G02-A7.5-PS-7	
Line profile	Gaussian Intensity Distribution	
Line type	Laser Micro Line	
Wavelength	445 +15/-5 nm	
Laser output power	76 mW	
Laser safety class		3В
Focussing range	74-74 mm	
Working distance		74 mm
Line length		2.4 mm
Line width	0.013 mm	
Rayleigh range	0.583 mm	
Edge intensity	2 %	
Diameter laser module	25/28 mm	
Module length	73.1 mm	
Installation length	177.1 mm	
Cable length	1.5 m	
Connector type	Lumberg SV70 IEC 61076-2-106	
Supply voltage		5 ± 0.2 V
Max. current consumption		0.5 A
Working temperature	15 - 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	0.6/0.2 μs
Rise / Fall time	200000/200000 μs	0.2/0.2 μs
Interface		RS232



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<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	 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. 48 mm

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-75-2_55CM-445-76-G02-A7_5-PS-7</u> from 4/26/2024

CONTACT

For more information please contact: Schäfter + Kirchhoff GmbH Kieler Str. 212 22525 Hamburg Germany Tel: +49 40 85 39 97-0 Fax: +49 40 85 39 97-79

info@sukhamburg.de www.sukhamburg.com

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