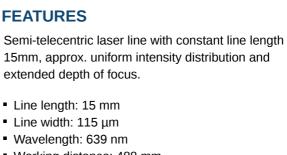
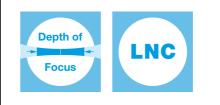
LNC-13LTM-500-41+91CR-639-2-H18-M60-H-6

Semi-telecentric Macro Line Generator Semi-telecentric Low Noise Macro Line Generator





- Working distance: 488 mm
- Depth of focus: 44.5 mm
- Low noise laser module (0.1 % RMS, @<1 MHz)
- Macro Line Generator for extended depth of focus
- Low noise, low coherence laser module (typ. < 0.15 % of P_o (RMS, Bandwidth < 1 MHz))



DESCRIPTION

The laser diode beam source type LNC-13LTM-500-41+91CR-639-2-H18-M60-H-6 produces a semi-telecentric laser line with 15 mm line length and extended depth of focus. The intensity profile is approx. uniform in line direction. More precisely, it is Gaussian clipped by an aperture with an edge intensity of 87 %. 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 H</u> for control of the laser output power. It is a low noise laser source (0.1 % RMS,@<1 MHz) with reduced coherence length and operates mode-hopping free. Due to the reduced coherence length the speckle contrast might be lowered. Please note that this effect is smaller for smaller lines and spots. 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

LNC-13LTM-500-41+91CR-639-2-H18-M60-H-6

Series		13LTM
Order Code	LNC-13LTM-500-41+91CR-639-	-2-H18-M60-H-6
Line profile	Constant Inter	nsity Distribution
Line type	L	aser Macro Line
Wavelength		639 +10/-10 nm
Laser output power		2 mW
Laser safety class		3R
Focussing range		488-488 mm
Working distance		488 mm
Line length		15 mm
Line width		0.115 mm
Depth of focus	44.5 mm	
Edge intensity	87 %	
Diameter laser module	25/28 mm	
Module length	139.8 mm	
Installation length	627.8 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	2/0.3 µs	1.5/0.1 μs

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Rise / Fall time	1/1 µs	1/1 µs
Noise (< 1 MHZ RMS)		0.1 %

ACCESSORIES

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

RELATED PRODUCTS

LASER MODULES SERIES LNC-13LT	 Semi-telecentric Micro Line Uniform intensity distribution Constant line length 15 mm 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 LNC-5LTM-1	 Semi-telecentric Macro Line Gaussian intensity distribution Constant line length ca. 4.8 mm Extended depth of focus Low noise
LASER MODULES SERIES LNC-5LTM-2	 Semi-telecentric Macro Line Gaussian intensity distribution Constant line length ca. 2 mm Extended depth of focus

- Extended depth of focus
- Low noise



DATA SHEET

This is a printout of the page <u>https://sukhamburg.com/products/details/LNC-13LTM-500-41_91CR-639-2-H18-M60-H-6</u> from 5/2/2024

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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