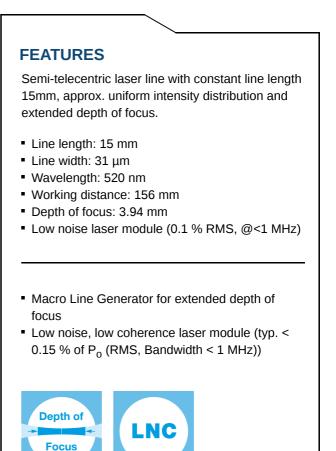
LNC-13LTM-165-41+91CR-520-4-O11-M60-HP-4

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





DESCRIPTION

The laser diode beam source type LNC-13LTM-165-41+91CR-520-4-O11-M60-HP-4 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 77 %. 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 HP</u> with micro-controller 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</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

LNC-13LTM-165-41+91CR-520-4-O11-M60-HP-4

Series		13LTM
Order Code	LNC-13LTM-165-41+91CR-520-4-O11-M60-HP-4	
Line profile	Constant Intensity Distribution	
Line type	Laser Macro Line	
Wavelength		520 +10/-5 nm
Laser output power		4 mW
Laser safety class		3R
Focussing range	156-156 mm	
Working distance		156 mm
Line length		15 mm
Line width	0.031 mm	
Depth of focus	3.94 mm	
Edge intensity	77 %	
Diameter laser module	25/28 mm	
Module length	139.8 mm	
Installation length	295.8 mm	
Cable length	1.5 m	
Connector type	Lumberg SV40 IEC 61076-2-106	
Supply voltage	12 ± 0.5 V	
Max. current consumption	0.3A	
Working temperature	15 - 40 °C	
Modulation inputs	Analog	TTL
Input resistance	9 kOhm	9 kOhm
Max. modulation frequency	0.001 kHz	300 kHz
Modulation delay ON/OFF	2000/500 µs	0.5/0.2 μs

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Rise / Fall time	200000/200000 µs	0.8/0.3 μs
Noise (< 1 MHZ RMS)		0.1 %

ACCESSORIES

9D-12	Screwdriver WS 1.2
PS120516E	Power Supply 12 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 Low noise



DATA SHEET

This is a printout of the page <u>https://sukhamburg.com/products/details/LNC-13LTM-165-41_91CR-520-4-O11-M60-HP-4</u> from 5/4/2024

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