

LNC-5LTM-250-22+56CM-520-9-O11-A7.5-HP-4

Semi-telecentric Macro Line Generator



FEATURES

Semi-telecentric laser line with constant line length of 2.4 mm and extended depth of focus.

Line length: 2.4 mm
Line width: 128 µm
Wavelength: 520 nm
Working distance: 245 mm
Depth of focus: 36.2 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-5LTM-250-22+56CM-520-9-O11-A7.5-HP-4 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 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 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-5LTM-250-22+56CM-520-9-O11-A7.5-HP-4

Order Code Line profile Gauss Line type Wavelength Laser output power	ian Intei	nsity Distribution aser Macro Line 520 +10/-5 nm 9 mW		
Line type Wavelength		aser Macro Line 520 +10/-5 nm 9 mW		
Wavelength	L	520 +10/-5 nm 9 mW		
		9 mW		
Laser output power				
		20		
Laser safety class		3B		
Focussing range	245-245 mm			
Working distance	245 mm			
Line length	2.4 mm			
Line width	0.128 mm			
Depth of focus	36.2 mm			
Edge intensity	18 %			
Diameter laser module	25/28 mm			
Module length	88 mm			
Installation length	363 mm			
Cable length	1.5 m			
Connector type Lumberg	Lumberg SV40 IEC 61076-2-106			
Supply voltage	12 ± 0.5 V			
Max. current consumption	0.3 A			
Working temperature	15 - 40 °C			
Modulation inputs	Analog	TTL		
Input resistance 9	kOhm	9 kOhm		
Max. modulation frequency 0.00	01 kHz	300 kHz		
Modulation delay ON/OFF 2000/9	500 µs	0.5/0.2 μs		
Rise / Fall time 200000/2000	000 μs	0.8/0.3 μs		
Noise (< 1 MHZ RMS)		0.1 %		



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

PS120516E Power Supply 12 V

RELATED PRODUCTS

LASER MODULES ■ Semi-telecentric Micro Line
SERIES LNC-5LT-2 ■ Gaussian intensity distribution

Constant line length ca. 2 mm

Low noise

LASER MODULES ■ Semi-telecentric Macro Line SERIES 5LTM-2 ■ Gaussian intensity distribution

Constant line length ca. 2 mm

Extended depth of focus

LASER MODULES Semi-telecentric Macro Line

SERIES

• Uniform intensity distribution

LNC-13LTM

• Constant line length 15 mm

Extended depth of focus

Low noise

LASER MODULES • Semi-telecentric Macro Line

Gaussian intensity distribution

Constant line length ca. 4.8 mm

Extended depth of focus

Low noise

SERIES LNC-5LTM-1



This is a printout of the page https://sukhamburg.com/products/details/LNC-5LTM-250-22_56CM-520-9-O11-A7_5-HP-4 from 4/26/2024

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