LNC-5LP40-S000+56CR-520-13-O11-A7.5-HP-4

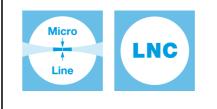
Low Noise Micro Line Generator with a large fan angle



FEATURES

Laser line with a large fan angle and Gaussian intensity distribution.

- Line length: 720 mm
- Line width: 481 μm
- Wavelength: 520 nm
- Working distance: 1000 mm
- Low noise laser module (0.1 % RMS, @<1 MHz)
- Micro Line Generator for small laser line widths and high power density in the focal plane
- Low noise, low coherence laser module (typ. < 0.15 % of P₀ (RMS, Bandwidth < 1 MHz))



DESCRIPTION

The laser diode beam source type LNC-5LP40-S000+56CR-520-13-O11-A7.5-HP-4 has a fan angle of 40°.

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 18 %. 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 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> ports (<u>TTL and analog</u>) or manually using the potentiometer.



The working distance can be adjusted by adjusting the focus setting. Please note that beam parameters like line length and line width increase proportionally to the working distance. A fine-adjustment of the distance between laser and target is recommended for fine-focusing.

TECHNICAL DATA

LNC-5LP40-S000+56CR-520-13-O11-A7.5-HP-4

	5LP
LNC-5LP40-S000+56CR-520-13-	-011-A7.5-HP-4
Gaussian Inter	nsity Distribution
l	aser Micro Line
	520 +10/-5 nm
	13 mW
	3B
	40 deg
	430-inf mm
	1000 mm
	720 mm
	0.481 mm
	699 mm
	18 %
	25/28 mm
	102.6 mm
	1102.6 mm
	1.5 m
Lumberg SV40 I	EC 61076-2-106
	12 ± 0.5 V
	0.3 A
	15 - 40 °C
Analog	TTL
9 kOhm	9 kOhm
0.001 kHz	300 kHz
2000/500 µs	0.5/0.2 μs
200000/200000 µs	0.8/0.3 µs
	Gaussian Inter



Noise (< 1 MHZ RMS)

0.1%

ACCESSORIES

50HD-15	Hex key WS 1.5
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 SERIES LNC-5LPM	 Macro Line, large fan angle Gaussian intensity distribution Extended depth of focus Low noise
LASER MODULES SERIES 5LP	 Micro Line, large fan angle Gaussian intensity distribution
LASER MODULES SERIES LNC-13LN	 Micro Line, small fan angle Uniform intensity distribution Thin lines Low noise
LASER MODULES SERIES LNC-5LM	 Micro Line, small fan angle Gaussian intensity distribution Low noise



DATA SHEET

This is a printout of the page <u>https://sukhamburg.com/products/details/LNC-5LP40-S000_56CR-520-13-O11-A7_5-HP-4</u> from 4/25/2024

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