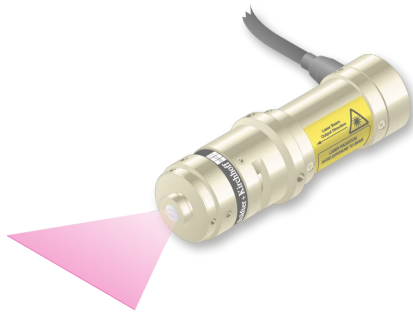


LNC-5LP60-S000+56CR-520-13-O11-A7.5-HP-4

Low Noise Micro Line Generator with a large fan angle

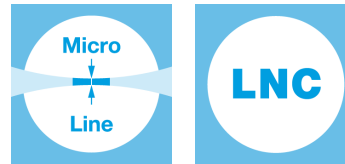


FEATURES

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

- Line length: 1200 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 P_0 (RMS, Bandwidth < 1 MHz))



DESCRIPTION

The laser diode beam source type LNC-5LP60-S000+56CR-520-13-O11-A7.5-HP-4 has a fan angle of 62°.

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 [type HP](#) 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 [modulation input ports \(TTL and analog\)](#), 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-5LP60-S000+56CR-520-13-O11-A7.5-HP-4

Series	5LP	
Order Code	LNC-5LP60-S000+56CR-520-13-O11-A7.5-HP-4	
Line profile	Gaussian Intensity Distribution	
Line type	Laser Micro Line	
Wavelength	520 +10/-5 nm	
Laser output power	13 mW	
Laser safety class	3B	
Fan angle α	62 deg	
Focussing range	430-inf mm	
Working distance	1000 mm	
Line length	1200 mm	
Line width	0.481 mm	
Rayleigh range	699 mm	
Edge intensity	18 %	
Diameter laser module	25/28 mm	
Module length	98.6 mm	
Installation length	1098.6 mm	
Cable length	1.5 m	
Connector type	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	0.001 kHz	300 kHz
Modulation delay ON/OFF	2000/500 µs	0.5/0.2 µs
Rise / Fall time	200000/200000 µs	0.8/0.3 µs

Noise (< 1 MHz RMS)

0.1 %

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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	<ul style="list-style-type: none"> ▪ Macro Line, large fan angle ▪ Gaussian intensity distribution ▪ Extended depth of focus ▪ Low noise
LASER MODULES SERIES 5LP	<ul style="list-style-type: none"> ▪ Micro Line, large fan angle ▪ Gaussian intensity distribution
LASER MODULES SERIES LNC-13LN	<ul style="list-style-type: none"> ▪ Micro Line, small fan angle ▪ Uniform intensity distribution ▪ Thin lines ▪ Low noise
LASER MODULES SERIES LNC-5LM	<ul style="list-style-type: none"> ▪ Micro Line, small fan angle ▪ Gaussian intensity distribution ▪ Low noise

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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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