LNC-5LP80-S000+56CM-639-9-H18-A8-H-6

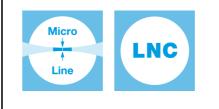
Low Noise Micro Line Generator with a large fan angle



FEATURES

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

- Line length: 1800 mm
- Line width: 430 μm
- Wavelength: 639 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-5LP80-S000+56CM-639-9-H18-A8-H-6 has a fan angle of 84°.

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 38 %. 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 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.

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-5LP80-S000+56CM-639-9-H18-A8-H-6

	5LP
LNC-5LP80-S000+56CM-63	9-9-H18-A8-H-6
Gaussian Inter	nsity Distribution
I	Laser Micro Line
	639 +10/-10 nm
	9 mW
	3B
	84 deg
	430-inf mm
	1000 mm
	1800 mm
	0.43 mm
	454 mm
	38 %
	25/28 mm
	95.6 mm
	1125.6 mm
	1.5 m
Lumberg SV50 II	EC 61076-2-106
	5 ± 0.2 V
	0.25 A
	0 - 40 °C
Analog	TTL
22 kOhm	22 kOhm
100 kHz	100 kHz
2/0.3 µs	1.5/0.1 μs
1/1 µs	1/1 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
PS051003E	Power Supply 5 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





DATA SHEET

This is a printout of the page <u>https://sukhamburg.com/products/details/LNC-5LP80-S000_56CM-639-9-H18-A8-H-6</u> from 4/26/2024

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