

LNC-5LM15-S000+56CR-685-19-H13-A8-H-6

Low Noise Micro Line Generator with a fan angle



FEATURES

Laser line with a fan angle and Gaussian intensity distribution.

Line length: 266 mm
Line width: 388 μm
Wavelength: 685 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-5LM15-S000+56CR-685-19-H13-A8-H-6 has a fan angle of 15°.

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 14 %. The line width is constant along the laser line. Across the laser line the intensity distribution is Gaussian.

The laser has integrated electronics $\underline{type\ H}$ 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 $\underline{modulation\ input\ ports\ (TTL\ and\ analog)}$ 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-5LM15-S000+56CR-685-19-H13-A8-H-6

	5LM
LNC-5LM15-S000+56CR-685-19-H13-A8-H-6	
Gaussian Intensity Distribution	
Laser Micro Line	
685 +10/-10 nm	
19 mW	
	3B
	15 deg
Focussing range 425-inf mm	
Working distance 1000 mm	
ine length 266 mm	
0.388 mm	
346 mm	
y 14 %	
25/28 mm	
85.6 mm	
tion length 1085.6 mm	
	1.5 m
Lumberg SV50 IEC 61076-2-106	
5 ± 0.25 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 Macro Line, small fan angle **SERIES LNC-5LMM**

Gaussian intensity distribution Extended depth of focus

Low Noise

LASER MODULES Micro Line, small fan angle

SERIES 5LM Gaussian intensity distribution

LASER MODULES • Micro Line, small fan angle

SERIES LNC-13LN Uniform intensity distribution

> Thin lines Low noise

LASER MODULES Micro Line, large fan angle **SERIES LNC-5LP**

Gaussian intensity distribution

Low noise



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