

LNC-13LNM250-S1000-7+91CR-635-2-H10-M60-H-6

Low Noise Macro Line Generator with a fan angle



FEATURES

Laser line with a fan angle, approx. uniform intensity distribution and extended depth of focus.

Line length: 56 mm
Line width: 132 µm
Wavelength: 635 nm
Working distance: 965.4

Working distance: 965.4 mmDepth of focus: 57.8 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-13LNM250-S1000-7+91CR-635-2-H10-M60-H-6 has a fan angle of 2.5°, approx. uniform intensity distribution along the laser line and extended depth of focus.

More precisely, it is Gaussian clipped by an aperture with an edge intensity of 84 %. 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.

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-13LNM250-S1000-7+91CR-635-2-H10-M60-H-6

	13LNM250
LNC-13LNM250-S1000-7+91CR-635	-2-H10-M60-H-6
Constant Inter	nsity Distribution
L	aser Macro Line
	635 +10/-10 nm
	2 mW
	3R
	2.5 deg
	965.4-965.4 mm
	965.4 mm
	56 mm
0.132 mm	
epth of focus 57.8 mm	
	84 %
	25/28 mm
	146.9 mm
	1112.3 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
	Constant Intel



Modulation delay ON/OFF	2/0.3 μs	1.5/0.1 μs
Rise / Fall time	1/1 μs	1/1 μs
Noise (< 1 MHZ RMS)		0.1 %

ACCESSORIES

9D-12 Screwdriver WS 1.2

PS051003E Power Supply 5 V

RELATED PRODUCTS

LASER MODULES ■ Micro Line, small fan angle **SERIES LNC-13LN** Uniform intensity distribution

> Thin lines Low noise

LASER MODULES ■ Micro Line Generator, small fan angle

SERIES 13LNM Uniform intensity distribution

Extended depth of focus

LASER MODULES Macro Line, small fan angle **SERIES LNC-5LMM**

Gaussian intensity distribution

Extended depth of focus

Low Noise

LASER MODULES Macro Line, large fan angle **SERIES LNC-5LPM**

Gaussian intensity distribution

Extended depth of focus

Low noise



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