

LNC-13MM-M100-4+56CM-520-8-O11-T15-HP-4

Low Noise Laser Macro Focus Generator with circular beam profile



FEATURES

Laser spot with approx. circular beam profile and extended depth of focus.

Spot diameter: 0.027 x 0.021 mm

Wavelength: 520 nmWorking distance: 84 mmDepth of focus: 1.45 mm

Low noise laser module (0.1 % RMS, @<1 MHz)

- Macro Focus Generator for extended depth of focus
- Low noise, low coherence laser module (typ. < 0.15 % of P₀ (RMS, Bandwidth < 1 MHz))





DESCRIPTION

The laser diode beam source type LNC-13MM-M100-4+56CM-520-8-O11-T15-HP-4 produces a circular laser spot with extended depth of focus. The beam profile is approx. Gaussian. More precisely it has an elliptical intensity distribution clipped by a circular aperture.

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 ports (TTL and analog)</u> or manually using the potentiometer.



The working distance can be adjusted by adjusting the focus setting. Please note that the spot diameter increases proportionally to the working distance. A fine-adjustment of the distance between laser and target is recommended for fine-focusing.

TECHNICAL DATA

LNC-13MM-M100-4+56CM-520-8-O11-T15-HP-4

	13MM
LNC-13MM-M100-4+56CM-520-8-O11-T15-HP-4	
Gaussian Intensity Distribution	
520 +10/-5 nm	
8 mW	
	3B
80-110 mm	
	84 mm
0.021 mm	
Spot width 0.027 mm	
1.45 mm	
25/28 mm	
93.8 mm	
207.8 mm	
	1.5 m
Lumberg SV40 IEC 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
	0.1 %
	Gaussian Inter Lumberg SV40 II Analog 9 kOhm 0.001 kHz 2000/500 μs



DOWNLOADS



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 • Micro Focus Generator

SERIES LNC-13M • Elliptical Gaussian beam profile

Low noise

LASER MODULES • Macro Focus Generator

SERIES 13MM • Circular beam profile

Extended depth of focus

LASER MODULES • Laser Macro Focus Generator

SERIES LNC-13MMC • Rotationally symmetric beam profile

Extended depth of focus

Low noise



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