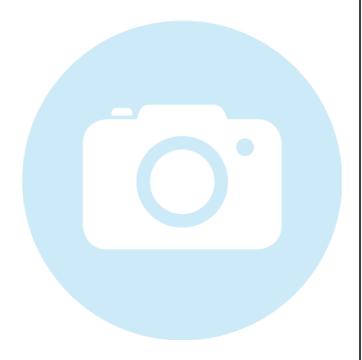


#### LNC-13MMC-S1000-8+96CR-639-6-B21-M60-H-6

Low Noise Laser Macro Focus Generator with rotationally symmetric beam profile



#### **FEATURES**

Laser spot with rotationally symmetric, Gaussian beam profile and extended depth of focus.

Spot diameter: 0.134 x 0.134 mm

Wavelength: 639 nm

Working distance: 967.5 mm

Depth of focus: 44.5 mm

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

- Macro Focus Generator for extended depth of focus
- Low noise, low coherence laser module (typ. < 0.15 % of P<sub>0</sub> (RMS, Bandwidth < 1 MHz))</li>





### **DESCRIPTION**

The laser diode beam source type LNC-13MMC-S1000-8+96CR-639-6-B21-M60-H-6 produces a rotationally symmetric laser spot with extended depth of focus. The beam profile is rotationally symmetric and approx. Gaussian.

The laser type LNC-13MMC-S1000-8+96CR-639-6-B21-M60-H-6 produces a circular laser spot with extended depth of focus. The beam profile is approx. 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  $\underline{\text{modulation input ports (TTL and analog)}}$  or manually using the potentiometer.



The working distance can be adjusted by adjusting the focus setting. Please note that 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-13MMC-S1000-8+96CR-639-6-B21-M60-H-6

Series 13MMC	
LNC-13MMC-S1000-8+96CR-639-6-B21-M60-H-6	
Gaussian Intensity Distribution	
639 +5/-5 nm	
6 mW	
ser safety class 3B	
815-1295 mm	
967.5 mm	
0.134 mm	
oot width 0.134 mm	
44.5 mm	
25/28 mm	
142.8 mm	
1110.3 mm	
1.5 m	
Lumberg SV50 IEC 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
Noise (< 1 MHZ RMS) 0.1%	
	Gaussian Inter



## **DOWNLOADS**



### **ACCESSORIES**

**50HD-15** Hex key WS 1.5

**9D-12** Screwdriver WS 1.2

**PS051003E** Power Supply 5 V

## **RELATED PRODUCTS**

LASER MODULES • Micro Focus Generator

SERIES LNC-13MC • Rotationally symmetric, Gaussian beam profile

Low noise

LASER MODULES Laser Macro Focus Generator

SERIES 13MMC Rotationally symmetric beam profile

Extended depth of focus

LASER MODULES

• Macro Focus Generator

SERIES LNC-13MM
• Circular beam profile

Extended depth of focus

Low noise



This is a printout of the page  $\underline{\text{https://sukhamburg.com/products/details/LNC-13MMC-S1000-8}\_96CR-639-6-B21-M60-H-6$  from 4/25/2024

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