

LNC-13MMC-S250-8+96CM-635-1-B08-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: 0.033 x 0.033 mm

Wavelength: 635 nm

Working distance: 234.7 mmDepth of focus: 2.76 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-13MMC-S250-8+96CM-635-1-B08-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-S250-8+96CM-635-1-B08-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 <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-13MMC-S250-8+96CM-635-1-B08-M60-H-6

Series 13MMC	
LNC-13MMC-S250-8+96CM-635-1-B08-M60-H-6	
Gaussian Intensity Distribution	
635 +5/-5 nm	
1 mW	
3R	
205-410 mm	
234.7 mm	
0.033 mm	
0.033 mm	
2.76 mm	
25/28 mm	
139.8 mm	
404.5 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
	0.1 %
	Gaussian Inter

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

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