

LNC-13MM-M60-4+56CM-640-8-H22-T15-H-6

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: 0.017 x 0.016 mm

Wavelength: 640 nmWorking distance: 45 mmDepth of focus: 0.642 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-M60-4+56CM-640-8-H22-T15-H-6 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 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-13MM-M60-4+56CM-640-8-H22-T15-H-6

Series 13MM	
LNC-13MM-M60-4+56CM-640-8-H22-T15-H-6	
Gaussian Intensity Distribution	
640 +5/-5 nm	
8 mW	
3B	
40-80 mm	
45 mm	
0.016 mm	
0.017 mm	
0.642 mm	
25/28 mm	
93.8 mm	
168.8 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



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

PS051003E Power Supply 5 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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