

13MC-M100+95CM-635-3-B08-M60-C-6

Laser Micro Focus Generator with rotationally symmetric beam profile



FEATURES

Laser spot with rotationally symmetric, Gaussian beam profile.

- Spot diameter: 0.006 x 0.006 mm
- Wavelength: 635 nm
- Working distance: 93 mm

- Micro Focus Generator for small spot widths and high power density in the focal plane



DESCRIPTION

The laser diode beam source type 13MC-M100+95CM-635-3-B08-M60-C-6 produces a rotationally symmetric circular laser spot with Gaussian intensity distribution.

The laser has integrated electronics [type C](#) for control of the laser output power. The output power can be controlled using the [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

13MC-M100+95CM-635-3-B08-M60-C-6

Series

13MC

Order Code	13MC-M100+95CM-635-3-B08-M60-C-6	
Line profile	Gaussian Intensity Distribution	
Wavelength	635 +5/-5 nm	
Laser output power	3 mW	
Laser safety class	3R	
Focussing range	80-110 mm	
Working distance	93 mm	
Spot height	0.006 mm	
Spot width	0.006 mm	
Rayleigh range	0.08 mm	
Diameter laser module	25/28 mm	
Module length	121.9 mm	
Installation length	244.9 mm	
Cable length	1.5 m	
Connector type	Lumberg SV50 IEC 61076-2-106	
Supply voltage	5 ± 0.2 V	
Max. current consumption	0.25 A	
Working temperature	0 - 40 °C	
Modulation inputs	Analog	TTL
Input resistance	22 kOhm	22 kOhm
Max. modulation frequency	100 kHz	100 kHz
Modulation delay ON/OFF	1/0.5 µs	2/1 µs
Rise / Fall time	3/2 µs	3/2 µs

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ACCESSORIES

50HD-15	Hex key WS 1.5
9D-12	Screwdriver WS 1.2
PS051003E	Power Supply 5 V

RELATED PRODUCTS

LASER MODULES SERIES 13MMC

- Laser Macro Focus Generator
- **Rotationally symmetric** beam profile
- Extended depth of focus

LASER MODULES SERIES LNC-13MC

- Micro Focus Generator
- **Rotationally symmetric**, Gaussian beam profile
- Low noise

LASER MODULES SERIES 13M

- Micro Focus Generator
- Elliptical Gaussian beam profile

LASER MODULES SERIES 5MC

- **Compact** Laser Micro Focus Generator
- **Rotationally symmetric**, Gaussian beam profile

LASER MODULES SERIES 5M

- **Compact** Laser Micro Focus Generator
- Elliptical Gaussian beam profile

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