

13M-M100+55CM-635-10-H10-T15-C-6

Laser Micro Focus Generator with elliptical Gaussian beam profile



FEATURES

Laser spot with elliptical Gaussian beam profile.

- Spot diameter: 0.007 x 0.023 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 13M-M100+55CM-635-10-H10-T15-C-6 produces an elliptical laser spot with elliptical 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

13M-M100+55CM-635-10-H10-T15-C-6

Series	13M
Order Code	13M-M100+55CM-635-10-H10-T15-C-6

Line profile	Gaussian Intensity Distribution	
Wavelength	635 +10/-10 nm	
Laser output power	10 mW	
Laser safety class	3B	
Focussing range	80-110 mm	
Working distance	93 mm	
Spot height	0.023 mm	
Spot width	0.007 mm	
Rayleigh range	0.112 mm	
Diameter laser module	25/28 mm	
Module length	75.9 mm	
Installation length	198.9 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

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
SERIES 13MM**

- Macro Focus Generator
- **Circular** beam profile
- Extended depth of focus

**LASER MODULES
SERIES 13MC**

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

**LASER MODULES
SERIES LNC-13M**

- Micro Focus Generator
- Elliptical Gaussian beam profile
- Low noise

**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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