13MC-M100+95CR-635-10-B07-M60-C-6

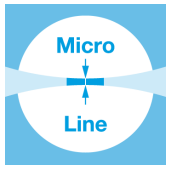
Laser Micro Focus Generator with rotationally symmetric beam profile

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+95CR-635-10-B07-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+95CR-635-10-B07-M60-C-6

Series	13MC

Order Code	13MC-M100+95CR-635-10-B07-M60-C-6	
Line profile	Gaussian Intensity Distribution	
Wavelength	635 +8/-8 nm	
Laser output power	10 mW	
Laser safety class	3B	
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	105.9 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

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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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CONTACT

For more information please contact:
Schäfter + Kirchhoff GmbH
Kieler Str. 212
22525 Hamburg
Germany
Tel: +49 40 85 39 97-0
Fax: +49 40 85 39 97-79

info@sukhamburg.de
www.sukhamburg.com

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