

13MC-S1000+95CM-635-10-B07-M60-CS-7

Laser Micro Focus Generator with rotationally symmetric beam profile



FEATURES

Laser spot with rotationally symmetric, Gaussian beam profile.

- Spot diameter: 0.057 x 0.057 mm
- Wavelength: 635 nm
- Working distance: 973 mm

- Micro Focus Generator for small spot widths and high power density in the focal plane
- With RS232 interface



DESCRIPTION

The laser diode beam source type 13MC-S1000+95CM-635-10-B07-M60-CS-7 produces a rotationally symmetric circular laser spot with Gaussian intensity distribution.

The laser has integrated electronics [type CS](#) for control of the laser output power and serial interface (RS232). 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-S1000+95CM-635-10-B07-M60-CS-7

Series	13MC	
Order Code	13MC-S1000+95CM-635-10-B07-M60-CS-7	
Line profile	Gaussian Intensity Distribution	
Wavelength	635 +8/-8 nm	
Laser output power	10 mW	
Laser safety class	3B	
Focussing range	815-1290 mm	
Working distance	973 mm	
Spot height	0.057 mm	
Spot width	0.057 mm	
Rayleigh range	8.02 mm	
Diameter laser module	25/28 mm	
Module length	121.9 mm	
Installation length	1124.9 mm	
Cable length	1.5 m	
Connector type	Lumberg SV70 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	9 kOhm	9 kOhm
Max. modulation frequency	0.001 kHz	250 kHz
Modulation delay ON/OFF	3000/3000 µs	0.5/0.2 µs
Rise / Fall time	200000/200000 µs	0.8/0.4 µs
Interface	RS232	

DOWNLOADS



[13MC+95CM+80.pdf](#)

ACCESSORIES

50HD-15 Hex key WS 1.5

9D-12 Screwdriver WS 1.2

PS051007E

Power Supply 5 V for laser modules with RS232 interface

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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