

13MC-M100+95CM-658-22-B09-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: 658 nm
- Working distance: 93 mm

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- 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-658-22-B09-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-658-22-B09-M60-C-6

Series

13MC

| | | |
|---------------------------|-----------------------------------|---------|
| Order Code | 13MC-M100+95CM-658-22-B09-M60-C-6 | |
| Line profile | Gaussian Intensity Distribution | |
| Wavelength | 658 +5/-5 nm | |
| Laser output power | 22 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 | 0.083 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 |

DOWNLOADS



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

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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