

## 13MMC-S1000-8+95CM-635-5-B07-M60-CS-7

Laser Macro Focus Generator with rotationally symmetric beam profile

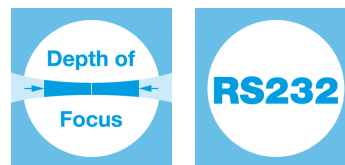


### FEATURES

Laser spot with rotationally symmetric, Gaussian beam profile and extended depth of focus.

- Spot diameter: 0.133 x 0.133 mm
- Wavelength: 635 nm
- Working distance: 967.5 mm
- Depth of focus: 44.2 mm

- Macro Focus Generator for extended depth of focus
- With RS232 interface



## DESCRIPTION

The laser diode beam source type 13MMC-S1000-8+95CM-635-5-B07-M60-CS-7 produces a rotationally symmetric laser spot with extended depth of focus. The beam profile is rotationally symmetric and approx. Gaussian.

The laser type 13MMC-S1000-8+95CM-635-5-B07-M60-CS-7 produces a circular laser spot with extended depth of focus. The beam profile is approx. Gaussian.

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

13MMC-S1000-8+95CM-635-5-B07-M60-CS-7

|                                  |                                       |            |
|----------------------------------|---------------------------------------|------------|
| <b>Series</b>                    | 13MMC                                 |            |
| <b>Order Code</b>                | 13MMC-S1000-8+95CM-635-5-B07-M60-CS-7 |            |
| <b>Line profile</b>              | Gaussian Intensity Distribution       |            |
| <b>Wavelength</b>                | 635 +8/-8 nm                          |            |
| <b>Laser output power</b>        | 5 mW                                  |            |
| <b>Laser safety class</b>        | 3R                                    |            |
| <b>Focussing range</b>           | 815-1295 mm                           |            |
| <b>Working distance</b>          | 967.5 mm                              |            |
| <b>Spot height</b>               | 0.133 mm                              |            |
| <b>Spot width</b>                | 0.133 mm                              |            |
| <b>Depth of focus</b>            | 44.2 mm                               |            |
| <b>Diameter laser module</b>     | 25/28 mm                              |            |
| <b>Module length</b>             | 130.3 mm                              |            |
| <b>Installation length</b>       | 1127.8 mm                             |            |
| <b>Cable length</b>              | 1.5 m                                 |            |
| <b>Connector type</b>            | Lumberg SV70 IEC 61076-2-106          |            |
| <b>Supply voltage</b>            | 5 ± 0.2 V                             |            |
| <b>Max. current consumption</b>  | 0.25 A                                |            |
| <b>Working temperature</b>       | 0 - 40 °C                             |            |
| <b>Modulation inputs</b>         | Analog                                | TTL        |
| <b>Input resistance</b>          | 9 kOhm                                | 9 kOhm     |
| <b>Max. modulation frequency</b> | 0.001 kHz                             | 250 kHz    |
| <b>Modulation delay ON/OFF</b>   | 3000/3000 µs                          | 0.5/0.2 µs |
| <b>Rise / Fall time</b>          | 200000/200000 µs                      | 0.8/0.4 µs |
| <b>Interface</b>                 | RS232                                 |            |

## 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 13MC

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

### LASER MODULES SERIES LNC-13MMC

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

### LASER MODULES SERIES 13MM

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

### LASER MODULES SERIES 5MM

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

This is a printout of the page [https://sukhamburg.com/products/details/13MMC-S1000-8\\_95CM-635-5-B07-M60-CS-7](https://sukhamburg.com/products/details/13MMC-S1000-8_95CM-635-5-B07-M60-CS-7) from 4/25/2024

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