

## 13M-S000+55CM-520-60-O11-T15-PS-7

Laser Micro Focus Generator with elliptical Gaussian beam profile

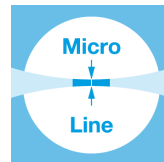


### FEATURES

Laser spot with elliptical Gaussian beam profile.

- Spot diameter: 0.135 x 0.481 mm
- Wavelength: 520 nm
- Working distance: 2000 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 13M-S000+55CM-520-60-O11-T15-PS-7 produces an elliptical laser spot with elliptical Gaussian intensity distribution.

The laser has integrated electronics [type PS](#) with micro-controller 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

13M-S000+55CM-520-60-O11-T15-PS-7

Series

13M

|                           |                                   |            |
|---------------------------|-----------------------------------|------------|
| Order Code                | 13M-S000+55CM-520-60-O11-T15-PS-7 |            |
| Line profile              | Gaussian Intensity Distribution   |            |
| Wavelength                | 520 +10/-5 nm                     |            |
| Laser output power        | 60 mW                             |            |
| Laser safety class        | 3B                                |            |
| Focussing range           | 1295-inf mm                       |            |
| Working distance          | 2000 mm                           |            |
| Spot height               | 0.481 mm                          |            |
| Spot width                | 0.135 mm                          |            |
| Rayleigh range            | 54.9 mm                           |            |
| Diameter laser module     | 25/28 mm                          |            |
| Module length             | 75.9 mm                           |            |
| Installation length       | 2105.9 mm                         |            |
| Cable length              | 1.5 m                             |            |
| Connector type            | Lumberg SV70 IEC 61076-2-106      |            |
| Supply voltage            | 5 ± 0.2 V                         |            |
| Max. current consumption  | 0.5 A                             |            |
| Working temperature       | 15 - 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                      | 0.6/0.2 µs |
| Rise / Fall time          | 200000/200000 µs                  | 0.2/0.2 µs |
| Interface                 | RS232                             |            |

## 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 |

PS051007E

Power Supply 5 V for laser modules with RS232 interface

## 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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