

## 13M-S500+55CM-520-60-O11-T15-P-6

Laser Micro Focus Generator with elliptical Gaussian beam profile

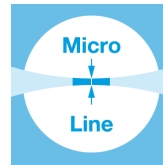


### FEATURES

Laser spot with elliptical Gaussian beam profile.

- Spot diameter: 0.034 x 0.12 mm
- Wavelength: 520 nm
- Working distance: 492 mm

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



## DESCRIPTION

The laser diode beam source type 13M-S500+55CM-520-60-O11-T15-P-6 produces an elliptical laser spot with elliptical Gaussian intensity distribution.

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

13M-S500+55CM-520-60-O11-T15-P-6

|            |                                  |
|------------|----------------------------------|
| Series     | 13M                              |
| Order Code | 13M-S500+55CM-520-60-O11-T15-P-6 |

|                           |                                 |            |
|---------------------------|---------------------------------|------------|
| Line profile              | Gaussian Intensity Distribution |            |
| Wavelength                | 520 +10/-5 nm                   |            |
| Laser output power        | 60 mW                           |            |
| Laser safety class        | 3B                              |            |
| Focussing range           | 410-815 mm                      |            |
| Working distance          | 492 mm                          |            |
| Spot height               | 0.12 mm                         |            |
| Spot width                | 0.034 mm                        |            |
| Rayleigh range            | 3.43 mm                         |            |
| Diameter laser module     | 25/28 mm                        |            |
| Module length             | 75.9 mm                         |            |
| Installation length       | 597.9 mm                        |            |
| Cable length              | 1.5 m                           |            |
| Connector type            | Lumberg SV50 IEC 61076-2-106    |            |
| Supply voltage            | 5 ± 0.2 V                       |            |
| Max. current consumption  | 0.5 A                           |            |
| Working temperature       | 15 - 40 °C                      |            |
| Modulation inputs         | Analog                          | TTL        |
| Input resistance          | 9 kOhm                          | 9 kOhm     |
| Max. modulation frequency | 0.01 kHz                        | 250 kHz    |
| Modulation delay ON/OFF   | 3000/3000 µs                    | 0.5/0.2 µs |
| Rise / Fall time          | 40000/40000 µs                  | 0.5/0.5 µs |

## 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 |
| PS051003E       | Power Supply 5 V                                       |

## 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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