

13M-M125+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: 0.008 x 0.03 mm
- Wavelength: 520 nm
- Working distance: 120 mm

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- 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-M125+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-M125+55CM-520-60-O11-T15-PS-7

Series

13M

| | | |
|---------------------------|-----------------------------------|------------|
| Order Code | 13M-M125+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 | 110-205 mm | |
| Working distance | 120 mm | |
| Spot height | 0.03 mm | |
| Spot width | 0.008 mm | |
| Rayleigh range | 0.215 mm | |
| Diameter laser module | 25/28 mm | |
| Module length | 75.9 mm | |
| Installation length | 225.9 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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