13MM-S250-4+55CM-520-33-O11-T15-P-6

Laser Macro Focus Generator with approx. circular beam profile



FEATURES

Laser spot with approx. circular beam profile and extended depth of focus.

- Spot diameter: 0.068 x 0.054 mm
- Wavelength: 520 nm
- Working distance: 233 mm
- Depth of focus: 9.05 mm
- Macro Focus Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 13MM-S250-4+55CM-520-33-O11-T15-P-6 produces a circular laser spot with extended depth of focus. The beam profile is approx. Gaussian. More precisely it has an elliptical intensity distribution clipped by a circular aperture.

The laser has integrated electronics <u>type P</u> with micro-controller for control of the laser output power. The output power can be controlled using the <u>modulation input ports (TTL and analog)</u> 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

13MM-S250-4+55CM-520-33-O11-T15-P-6



DATA SHEET

| Series | | 13MM |
|---------------------------|-------------------------------------|------------|
| Order Code | 13MM-S250-4+55CM-520-33-O11-T15-P-6 | |
| Line profile | Gaussian Intensity Distribution | |
| Wavelength | 520 +10/-5 nm | |
| Laser output power | 33 mW | |
| Laser safety class | 3В | |
| Focussing range | 205-410 mm | |
| Working distance | 233 mm | |
| pot height 0.054 mm | | |
| Spot width | 0.068 mm | |
| Depth of focus | 9.05 mm | |
| Diameter laser module | 25/28 mm | |
| Module length | 84.3 mm | |
| Installation length | 347.3 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 13M | Micro Focus Generator Elliptical Gaussian beam profile |
|----------------------------------|---|
| LASER MODULES SERIES LNC-13MM | Macro Focus Generator Circular beam profile Extended depth of focus Low noise |
| LASER MODULES SERIES 13MMC | Laser Macro Focus Generator Rotationally symmetric beam profile Extended depth of focus |
| LASER MODULES SERIES 5MM | Compact Laser Macro Focus Generator Circular beam profile and Extended depth of focus |

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