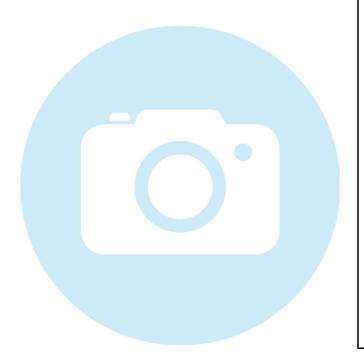


5M-A11+55CM-450-57-O06-A7.5-P-6

Compact Laser Micro Focus Generator with elliptical Gaussian beam profile



FEATURES

Compact Laser spot with elliptical Gaussian beam profile.

Spot diameter: 0.001 x 0.004 mm

• Wavelength: 450 nm

Working distance: 7.4 mm

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



DESCRIPTION

The laser diode beam source type 5M-A11+55CM-450-57-O06-A7.5-P-6 produces an elliptical laser spot with elliptical Gaussian intensity distribution.

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

5M-A11+55CM-450-57-O06-A7.5-P-6

Series 5M



| Order Code | 5M-A11+55CM-450-57-O06-A7.5-P-6 | |
|---------------------------|---------------------------------|------------|
| Line profile | Gaussian Intensity Distribution | |
| Wavelength | 450 +10/-10 nm | |
| Laser output power | 57 mW | |
| Laser safety class | 3B | |
| Focussing range | 6-15 mm | |
| Working distance | 7.4 mm | |
| Spot height | 0.004 mm | |
| Spot width | 0.001 mm | |
| Rayleigh range | 0.007 mm | |
| Diameter laser module | 25/28 mm | |
| Module length | 76.4 mm | |
| Installation length | 113.8 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

60EX-4 Eccentric key with a stroke of \pm 0.5 mm.

60EX-4-L Alternative eccentric key with long handle with a

stroke of ± 0.5 mm.

9D-12 Screwdriver WS 1.2

RELATED PRODUCTS



LASER MODULES

Compact Laser Macro Focus Generator

SERIES 5MM

Circular beam profile andExtended depth of focus

LASER MODULES

Micro Focus Generator

SERIES 13MC

Rotationally symmetric, Gaussian beam profile

LASER MODULES

Compact Laser Micro Focus Generator

SERIES 5MC

Rotationally symmetric, Gaussian beam profile

LASER MODULES

Micro Focus Generator

SERIES 13M

Elliptical Gaussian beam profile

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