

5MM-S50-0.8+25CM-405-5-Y07-A4.5-B-4

Compact Laser Macro Focus Generator with approx. circular beam profile



FEATURES

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

- Spot diameter: 0.043 x 0.042 mm
- Wavelength: 405 nm
- Working distance: 46 mm
- Depth of focus: 7.05 mm

- Macro Focus Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 5MM-S50-0.8+25CM-405-5-Y07-A4.5-B-4 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 [type B](#) for control of the laser output power. The output power can be controlled using the [modulation input port \(TTL\)](#) 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

5MM-S50-0.8+25CM-405-5-Y07-A4.5-B-4

Series	5MM
Order Code	5MM-S50-0.8+25CM-405-5-Y07-A4.5-B-4
Line profile	Gaussian Intensity Distribution
Wavelength	405 +5/-5 nm
Laser output power	5 mW
Laser safety class	3R
Focussing range	35-70 mm
Working distance	46 mm
Spot height	0.042 mm
Spot width	0.043 mm
Depth of focus	7.05 mm
Diameter laser module	12 mm
Module length	65.4 mm
Installation length	141.4 mm
Cable length	1.5 m
Connector type	Lumberg SV40 IEC 61076-2-106
Supply voltage	12 ± 0.5 V
Max. current consumption	0.16 A
Working temperature	0 - 40 °C
Modulation inputs	TTL
Input resistance	110 kOhm
Max. modulation frequency	0.2 kHz
Modulation delay ON/OFF	500/500 µs
Rise / Fall time	10/20 µs

ACCESSORIES

60EX-4	Eccentric key with a stroke of ± 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
PS120516E	Power Supply 12 V

RELATED PRODUCTS

**LASER MODULES
SERIES 5M**

- **Compact** Laser Micro Focus Generator
- Elliptical Gaussian beam profile

**LASER MODULES
SERIES 13MMC**

- Laser Macro Focus Generator
- **Rotationally symmetric** beam profile
- Extended depth of focus

**LASER MODULES
SERIES 13MM**

- Macro Focus Generator
- **Circular** beam profile
- Extended depth of focus

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