

5M-A6+25CM-405-14-Y07-A7.5-B-4

Compact Laser Micro Focus Generator with elliptical Gaussian beam profile

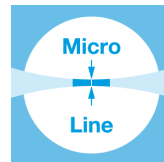


FEATURES

Compact Laser spot with elliptical Gaussian beam profile.

- Spot diameter: 0.001 x 0.002 mm
- Wavelength: 405 nm
- Working distance: 3 mm

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



DESCRIPTION

The laser diode beam source type 5M-A6+25CM-405-14-Y07-A7.5-B-4 produces an elliptical laser spot with elliptical Gaussian intensity distribution.

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

5M-A6+25CM-405-14-Y07-A7.5-B-4

Series

5M

Order Code	5M-A6+25CM-405-14-Y07-A7.5-B-4
Line profile	Gaussian Intensity Distribution
Wavelength	405 +5/-5 nm
Laser output power	14 mW
Laser safety class	3B
Focussing range	2-6 mm
Working distance	3 mm
Spot height	0.002 mm
Spot width	0.001 mm
Rayleigh range	0.002 mm
Diameter laser module	12 mm
Module length	64 mm
Installation length	97 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 5MM**

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

**LASER MODULES
SERIES 13MC**

- Micro Focus Generator
- **Rotationally symmetric**, Gaussian beam profile

**LASER MODULES
SERIES 5MC**

- **Compact** Laser Micro Focus Generator
- **Rotationally symmetric**, Gaussian beam profile

**LASER MODULES
SERIES 13M**

- Micro Focus Generator
- Elliptical Gaussian beam profile

This is a printout of the page https://sukhamburg.com/products/details/5M-A6_25CM-405-14-Y07-A7_5-B-4 from 9/23/2023

CONTACT

For more information please contact:

Schäfter + Kirchhoff GmbH

Kieler Str. 212

22525 Hamburg

Germany

Tel: +49 40 85 39 97-0

Fax: +49 40 85 39 97-79

info@sukhamburg.de

www.sukhamburg.com

LEGAL NOTICE

Copyright 2020 Schäfter+Kirchhoff GmbH. All rights reserved.

Text, image, graphic, sound, video and animation files and their arrangement on Schäfter+Kirchhoff GmbH webpages are protected by copyright and other protective laws. The content may not be copied for commercial use or reproduced, modified or used on other websites. [\[more\]](#)