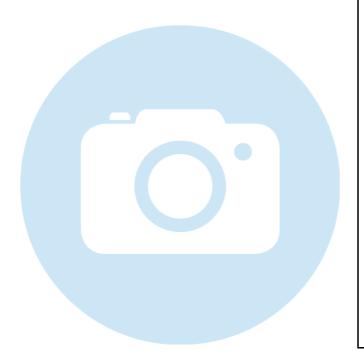


# 5M-S150+55CM-405-14-Y07-A7.5-C-6

Compact Laser Micro Focus Generator with elliptical Gaussian beam profile



#### **FEATURES**

Compact Laser spot with elliptical Gaussian beam profile.

■ Spot diameter: 0.019 x 0.041 mm

Wavelength: 405 nm

Working distance: 147 mm

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



### **DESCRIPTION**

The laser diode beam source type 5M-S150+55CM-405-14-Y07-A7.5-C-6 produces an elliptical laser spot with elliptical Gaussian intensity distribution.

The laser has integrated electronics  $\underline{type\ C}$  for control of the laser output power. The output power can be controlled using the  $\underline{modulation\ input\ ports\ (TTL\ and\ analog)}$  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**

5M-S150+55CM-405-14-Y07-A7.5-C-6

Series 5M



Order Code	5M-S150+55CM-405-14-Y07-A7.5-C-6	
Line profile	Gaussian Intensity Distribution	
Wavelength	405 +5/-5 nm	
Laser output power	14 mW	
Laser safety class	3B	
Focussing range	125-260 mm	
Working distance	147 mm	
Spot height	0.041 mm	
Spot width	0.019 mm	
Rayleigh range	1.34 mm	
Diameter laser module	25/28 mm	
Module length	73.1 mm	
Installation length	250.1 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	0 - 40 °C	
Modulation inputs	Analog	TTL
Input resistance	22 kOhm	22 kOhm
Max. modulation frequency	100 kHz	100 kHz
Modulation delay ON/OFF	1/0.5 μs	2/1 μs
Rise / Fall time	3/2 μs	3/2 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 and

Extended 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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