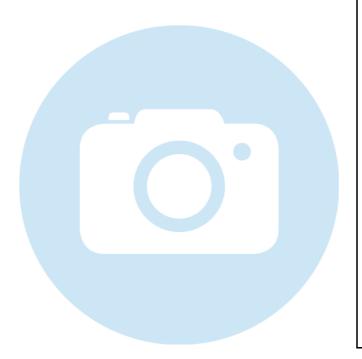


5M-S150+55CM-445-76-G02-A7.5-P-6

Compact Laser Micro Focus Generator with elliptical Gaussian beam profile



FEATURES

Compact Laser spot with elliptical Gaussian beam profile.

Spot diameter: 0.026 x 0.055 mm

Wavelength: 445 nmWorking 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-445-76-G02-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-S150+55CM-445-76-G02-A7.5-P-6

Series 5M



Order Code	5M-S150+55CM-445-76-G02-A7.5-P-6	
Line profile	Gaussian Intensity Distribution	
Wavelength	445 +15/-5 nm	
Laser output power	76 mW	
Laser safety class	3B	
Focussing range	125-260 mm	
Working distance	147 mm	
Spot height	0.055 mm	
Spot width	0.026 mm	
Rayleigh range	2.33 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	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 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

This is a printout of the page $\underline{\text{https://sukhamburg.com/products/details/5M-S150}}$ 55CM-445-76-G02-A7 5-P-6 from 5/5/2024

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