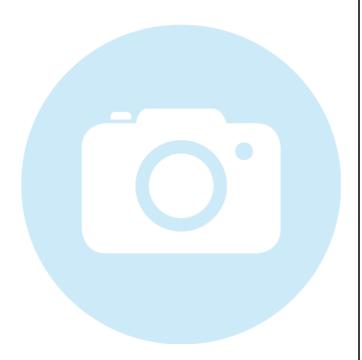


5M-S150+55CM-445-76-G02-A7.5-PS-7

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
- With RS232 interface





DESCRIPTION

The laser diode beam source type 5M-S150+55CM-445-76-G02-A7.5-PS-7 produces an elliptical laser spot with elliptical Gaussian intensity distribution.

The laser has integrated electronics <u>type PS</u> with micro-controller for control of the laser output power and serial interface (RS232). 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-PS-7



Line profile Wavelength Laser output power Laser safety class	50+55CM-445-76 Gaussian Inte	nsity Distribution	
Wavelength Laser output power Laser safety class	Gaussian Inte		
Laser output power Laser safety class			
Laser safety class		445 +15/-5 nm	
-	76 mW		
	3В		
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 SV70 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	0.001 kHz	250 kHz	
Modulation delay ON/OFF	3000/3000 μs	0.6/0.2 μs	
Rise / Fall time 20	0000/200000 μs	0.2/0.2 μs	
Interface		RS232	

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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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

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