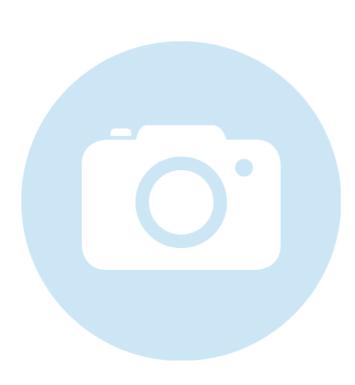
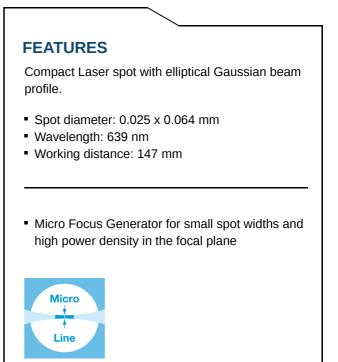
5M-S150+55CM-639-18-H18-A8-C-6

Compact Laser Micro Focus Generator with elliptical Gaussian beam profile





DESCRIPTION

The laser diode beam source type 5M-S150+55CM-639-18-H18-A8-C-6 produces an elliptical laser spot with elliptical Gaussian intensity distribution.

The laser has integrated electronics <u>type C</u> 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-639-18-H18-A8-C-6

Series

5M



DATA SHEET

Order Code	5M-S150+55CM-639-18-H18-A8-C-6	
Line profile	Gaussian Intensity Distribution	
Wavelength	639 +10/-10 nm	
Laser output power	18 mW	
Laser safety class	3В	
Focussing range	125-260 mm	
Working distance	147 mm	
Spot height	0.064 mm	
Spot width	0.025 mm	
Rayleigh range	1.51 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	0.25 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 ± 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 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 <u>https://sukhamburg.com/products/details/5M-S150_55CM-639-18-H18-A8-C-6</u> from 5/4/2024

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