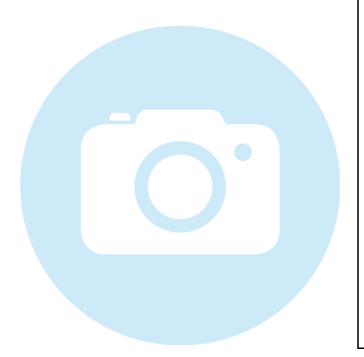


5M-A18+55CM-685-39-H13-A8-C-6

Compact Laser Micro Focus Generator with elliptical Gaussian beam profile



FEATURES

Compact Laser spot with elliptical Gaussian beam profile.

■ Spot diameter: 0.003 x 0.007 mm

Wavelength: 685 nm

Working distance: 16.5 mm

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



DESCRIPTION

The laser diode beam source type 5M-A18+55CM-685-39-H13-A8-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-A18+55CM-685-39-H13-A8-C-6

Series 5M



Order Code	5M-A18+55CM-685-39-H13-A8-C-6	
Line profile	Gaussian Intensity Distribution	
Wavelength	685 +10/-10 nm	
Laser output power	39 mW	
Laser safety class	3B	
Focussing range	15-35 mm	
Working distance	16.5 mm	
Spot height	0.007 mm	
Spot width	0.003 mm	
Rayleigh range	0.023 mm	
Diameter laser module	25/28 mm	
Module length	76.4 mm	
Installation length	122.9 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 \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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