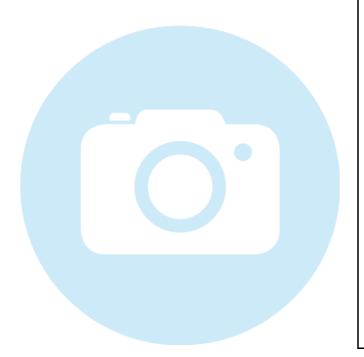


5M-S50+55CM-685-39-H13-A8-C-6

Compact Laser Micro Focus Generator with elliptical Gaussian beam profile



FEATURES

Compact Laser spot with elliptical Gaussian beam profile.

Spot diameter: 0.009 x 0.019 mm

Wavelength: 685 nm

Working distance: 46 mm

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



DESCRIPTION

The laser diode beam source type 5M-S50+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-S50+55CM-685-39-H13-A8-C-6

Series 5M



Line profile Gaussian Wavelength Laser output power Laser safety class Focussing range Working distance Spot height Spot width Rayleigh range Diameter laser module Module length	Inte	nsity Distribution 685 +10/-10 nm 39 mW 3B 35-70 mm 46 mm	
Laser output power Laser safety class Focussing range Working distance Spot height Spot width Rayleigh range Diameter laser module		39 mW 3B 35-70 mm	
Laser safety class Focussing range Working distance Spot height Spot width Rayleigh range Diameter laser module		3B 35-70 mm	
Focussing range Working distance Spot height Spot width Rayleigh range Diameter laser module		35-70 mm	
Working distance Spot height Spot width Rayleigh range Diameter laser module			
Spot height Spot width Rayleigh range Diameter laser module		46 mm	
Spot width Rayleigh range Diameter laser module			
Rayleigh range Diameter laser module		0.019 mm	
Diameter laser module	0.009 mm		
	0.179 mm		
Module length	25/28 mm		
	73.1 mm		
Installation length	149.1 mm		
Cable length	1.5 m		
Connector type Lumberg SV	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 Ana	log	TTL	
Input resistance 22 kO	hm	22 kOhm	
Max. modulation frequency 100 kg	Ήz	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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