13M-M100+55CM-685-41-H13-T12-C-6

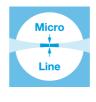
Laser Micro Focus Generator with elliptical Gaussian beam profile



FEATURES

Laser spot with elliptical Gaussian beam profile.

- Spot diameter: 0.012 x 0.026 mm
- Wavelength: 685 nm
- Working distance: 93 mm
- Micro Focus Generator for small spot widths and high power density in the focal plane



DESCRIPTION

The laser diode beam source type 13M-M100+55CM-685-41-H13-T12-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

13M-M100+55CM-685-41-H13-T12-C-6

 Series
 13M

 Order Code
 13M-M100+55CM-685-41-H13-T12-C-6



DATA SHEET

Line profile	Gaussian Intensity Distribution	
Wavelength	gth 685 +10/-10 nm	
Laser output power	41 mW	
Laser safety class	3В	
Focussing range	80-110 mm	
Working distance	93 mm	
Spot height	0.026 mm	
Spot width	0.012 mm	
Rayleigh range	0.308 mm	
Diameter laser module	25/28 mm	
Module length	75.9 mm	
Installation length	198.9 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

50HD-15	Hex key WS 1.5
9D-12	Screwdriver WS 1.2
13MK-25-36-10-F	Mounting Console with flat base plate
13МК-25-36-10-М	Mounting Console with base plate with dovetail profile
PS051003E	Power Supply 5 V

RELATED PRODUCTS





LASER MODULES SERIES 13MM	 Macro Focus Generator Circular beam profile Extended depth of focus
LASER MODULES SERIES 13MC	 Micro Focus Generator Rotationally symmetric, Gaussian beam profile
LASER MODULES SERIES LNC-13M	 Micro Focus Generator Elliptical Gaussian beam profile Low noise
LASER MODULES SERIES 5MC	 Compact Laser Micro Focus Generator Rotationally symmetric, Gaussian beam profile
LASER MODULES SERIES 5M	 Compact Laser Micro Focus Generator Elliptical Gaussian beam profile

This is a printout of the page <u>https://sukhamburg.com/products/details/13M-M100_55CM-685-41-H13-T12-C-6</u> from 4/25/2024

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

LEGAL NOTICE

Copyright 2020 Schäfter+Kirchhoff GmbH. All rights reserved.

Text, image, graphic, sound, video and animation files and their arrangement on Schäfter+Kirchhoff GmbH webpages are protected by copyright and other protective laws. The content may not be copied for commercial use or reproduced, modified or used on other websites. [more]