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

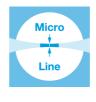
Laser Micro Focus Generator with elliptical Gaussian beam profile



#### **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	<b>gth</b> 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	<b>3/2</b> 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	<ul> <li>Macro Focus Generator</li> <li>Circular beam profile</li> <li>Extended depth of focus</li> </ul>
LASER MODULES SERIES 13MC	<ul> <li>Micro Focus Generator</li> <li>Rotationally symmetric, Gaussian beam profile</li> </ul>
LASER MODULES SERIES LNC-13M	<ul> <li>Micro Focus Generator</li> <li>Elliptical Gaussian beam profile</li> <li>Low noise</li> </ul>
LASER MODULES SERIES 5MC	<ul> <li>Compact Laser Micro Focus Generator</li> <li>Rotationally symmetric, Gaussian beam profile</li> </ul>
LASER MODULES SERIES 5M	<ul> <li>Compact Laser Micro Focus Generator</li> <li>Elliptical Gaussian beam profile</li> </ul>

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