13M-S000+55CM-1550-29-Q04-T12-P-6

Laser Micro Focus Generator with elliptical Gaussian beam profile

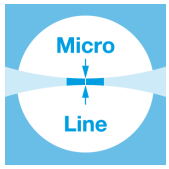


FEATURES

Laser spot with elliptical Gaussian beam profile.

- Spot diameter: 0.367 x 1.07 mm
- Wavelength: 1550 nm
- Working distance: 2000 mm

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



DESCRIPTION

The laser diode beam source type 13M-S000+55CM-1550-29-Q04-T12-P-6 produces an elliptical laser spot with elliptical Gaussian intensity distribution.

The laser has integrated electronics type P with micro-controller for control of the laser output power. The output power can be controlled using the 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

13M-S000+55CM-1550-29-Q04-T12-P-6

Series	13M
Order Code	13M-S000+55CM-1550-29-Q04-T12-P-6

Line profile	Gaussian Intensity Distribution	
Wavelength	1550 +20/-20 nm	
Laser output power	29 mW	
Laser safety class	3R	
Focussing range	1295-inf mm	
Working distance	2000 mm	
Spot height	1.07 mm	
Spot width	0.367 mm	
Rayleigh range	137 mm	
Diameter laser module	25/28 mm	
Module length	75.9 mm	
Installation length	2105.9 mm	
Cable length	1.5 m	
Connector type	Lumberg SV50 IEC 61076-2-106	
Supply voltage	5 ± 0.2 V	
Max. current consumption	0.5 A	
Working temperature	15 - 40 °C	
Modulation inputs	Analog	TTL
Input resistance	9 kOhm	9 kOhm
Max. modulation frequency	0.01 kHz	250 kHz
Modulation delay ON/OFF	3000/3000 µs	0.5/0.2 µs
Rise / Fall time	40000/40000 µs	0.5/0.5 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
13MK-25-36-10-M	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

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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

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