13M-S500+55CM-635-11-H10-T12-C-6

Laser Micro Focus Generator with elliptical Gaussian beam profile

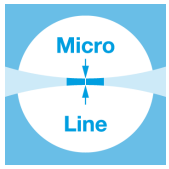


FEATURES

Laser spot with elliptical Gaussian beam profile.

- Spot diameter: 0.042 x 0.142 mm
- Wavelength: 635 nm
- Working distance: 492 mm

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



DESCRIPTION

The laser diode beam source type 13M-S500+55CM-635-11-H10-T12-C-6 produces an elliptical laser spot with elliptical Gaussian intensity distribution.

The laser has integrated electronics type C 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-S500+55CM-635-11-H10-T12-C-6

Series	13M
Order Code	13M-S500+55CM-635-11-H10-T12-C-6

Line profile	Gaussian Intensity Distribution	
Wavelength	635 +10/-10 nm	
Laser output power	11 mW	
Laser safety class	3B	
Focussing range	410-815 mm	
Working distance	492 mm	
Spot height	0.142 mm	
Spot width	0.042 mm	
Rayleigh range	4.32 mm	
Diameter laser module	25/28 mm	
Module length	75.9 mm	
Installation length	597.9 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
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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