13M-S1000+55CM-520-60-O11-T15-P-6

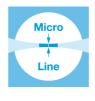
Laser Micro Focus Generator with elliptical Gaussian beam profile



FEATURES

Laser spot with elliptical Gaussian beam profile.

- Spot diameter: 0.067 x 0.24 mm
- Wavelength: 520 nm
- Working distance: 973 mm
- Micro Focus Generator for small spot widths and high power density in the focal plane



DESCRIPTION

The laser diode beam source type 13M-S1000+55CM-520-60-O11-T15-P-6 produces an elliptical laser spot with elliptical Gaussian intensity distribution.

The laser has integrated electronics <u>type P</u> with micro-controller 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-S1000+55CM-520-60-O11-T15-P-6

 Series
 13M

 Order Code
 13M-S1000+55CM-520-60-O11-T15-P-6



DATA SHEET

Line profile	Gaussian Intensity Distribution	
Wavelength	gth 520 +10/-5 nm	
Laser output power	60 mW	
Laser safety class		3B
Focussing range	815-1295 mm	
Working distance		973 mm
Spot height		0.24 mm
Spot width		0.067 mm
Rayleigh range		13.7 mm
Diameter laser module		25/28 mm
Module length	75.9 mm	
Installation length	1078.9 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



DATA SHEET

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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