

13M-S1000+55CM-450-60-O06-T15-P-6

Laser Micro Focus Generator with elliptical Gaussian beam profile



FEATURES

Laser spot with elliptical Gaussian beam profile.

Spot diameter: 0.061 x 0.172 mm

Wavelength: 450 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-450-60-O06-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-450-60-O06-T15-P-6

Series 13M

Order Code 13M-S1000+55CM-450-60-O06-T15-P-6



Line profile	Gaussian Intensity Distribution	
Wavelength	450 +10/-10 nm	
Laser output power	60 mW	
Laser safety class	3B	
Focussing range	815-1295 mm	
Working distance	973 mm	
Spot height	0.172 mm	
Spot width	0.061 mm	
Rayleigh range	13 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



LASER MODULES Macro Focus Generator **SERIES 13MM**

Circular beam profile

Extended depth of focus

LASER MODULES Micro Focus Generator

SERIES 13MC Rotationally symmetric, Gaussian beam profile

LASER MODULES Micro Focus Generator

SERIES LNC-13M Elliptical Gaussian beam profile

Low noise

LASER MODULES Compact Laser Micro Focus Generator

SERIES 5MC Rotationally symmetric, Gaussian beam profile

LASER MODULES Compact Laser Micro Focus Generator

 Elliptical Gaussian beam profile **SERIES 5M**

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