

# 13M-S1000+55CM-639-22-H18-T12-C-6

Laser Micro Focus Generator with elliptical Gaussian beam profile



#### **FEATURES**

Laser spot with elliptical Gaussian beam profile.

Spot diameter: 0.076 x 0.287 mm

Wavelength: 639 nmWorking 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-639-22-H18-T12-C-6 produces an elliptical laser spot with elliptical Gaussian intensity distribution.

The laser has integrated electronics  $\underline{type\ C}$  for control of the laser output power. The output power can be controlled using the  $\underline{modulation\ input\ ports\ (TTL\ and\ analog)}$  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-S1000+55CM-639-22-H18-T12-C-6

Series 13M

Order Code 13M-S1000+55CM-639-22-H18-T12-C-6



Line profile	Gaussian Intensity Distribution	
Wavelength	639 +10/-10 nm	
Laser output power	22 mW	
Laser safety class	3B	
Focussing range	815-1295 mm	
Working distance	973 mm	
Spot height	0.287 mm	
Spot width	0.076 mm	
Rayleigh range	14.4 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	0.25 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** 



LASER MODULES

• Macro Focus Generator

SERIES 13MM
• Circular beam profile

Circular beam profileExtended depth of focus

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

SERIES 5M • Elliptical Gaussian beam profile

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