

13M-S500+55CM-685-41-H13-T12-C-6

Laser Micro Focus Generator with elliptical Gaussian beam profile



FEATURES

Laser spot with elliptical Gaussian beam profile.

Spot diameter: 0.058 x 0.129 mm

Wavelength: 685 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-685-41-H13-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-S500+55CM-685-41-H13-T12-C-6

Series 13M

Order Code 13M-S500+55CM-685-41-H13-T12-C-6



Line profile	Gaussian Intensity Distribution	
Wavelength	685 +10/-10 nm	
Laser output power	41 mW	
Laser safety class	3B	
Focussing range	410-815 mm	
Working distance	492 mm	
Spot height	0.129 mm	
Spot width	0.058 mm	
Rayleigh range	7.71 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

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LASER MODULES

SERIES 13MM

Macro Focus GeneratorCircular 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 SERIES 5MC Compact Laser Micro Focus Generator

Rotationally symmetric, Gaussian beam profile

LASER MODULES

Compact Laser Micro Focus Generator

SERIES 5M

Elliptical Gaussian beam profile

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