

13M-S500+55CM-685-41-H13-T12-CS-7

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 nmWorking distance: 492 mm

- Micro Focus Generator for small spot widths and high power density in the focal plane
- With RS232 interface





DESCRIPTION

The laser diode beam source type 13M-S500+55CM-685-41-H13-T12-CS-7 produces an elliptical laser spot with elliptical Gaussian intensity distribution.

The laser has integrated electronics <u>type CS</u> for control of the laser output power and serial interface (RS232). 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-S500+55CM-685-41-H13-T12-CS-7

Series 13M



Order Code	13M-S500+55CM-685-41-H13-T12-CS-7	
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 SV70 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	9 kOhm	9 kOhm
Max. modulation frequency	0.001 kHz	250 kHz
Modulation delay ON/OFF	3000/3000 μs	0.5/0.2 μs
Rise / Fall time	200000/200000 μs	0.8/0.4 μs
Interface	RS232	

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



PS051007E Power Supply 5 V for laser modules with RS232

interface

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

SERIES 5M Elliptical Gaussian beam profile

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