

13MM-S500-4+55CM-639-11-H18-T12-CS-7

Laser Macro Focus Generator with approx. circular beam profile



FEATURES

Laser spot with approx. circular beam profile and extended depth of focus.

Spot diameter: 0.164 x 0.131 mm

Wavelength: 639 nmWorking distance: 483 mmDepth of focus: 44.5 mm

- Macro Focus Generator for extended depth of focus
- With RS232 interface





DESCRIPTION

The laser diode beam source type 13MM-S500-4+55CM-639-11-H18-T12-CS-7 produces a circular laser spot with extended depth of focus. The beam profile is approx. Gaussian. More precisely it has an elliptical intensity distribution clipped by a circular aperture.

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

13MM-S500-4+55CM-639-11-H18-T12-CS-7

	13MM	
Order Code	13MM-S500-4+55CM-639-11-H18-T12-CS-7	
Line profile	Gaussian Intensity Distribution	
Wavelength	639 +10/-10 nm	
Laser output power	11 mW	
Laser safety class	3B	
Focussing range	410-815 mm	
Working distance	483 mm	
Spot height	0.131 mm	
Spot width	0.164 mm	
Depth of focus	44.5 mm	
Diameter laser module	25/28 mm	
Module length	84.3 mm	
Installation length	597.3 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
nterface 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 • Micro Focus Generator

SERIES 13M • Elliptical Gaussian beam profile

LASER MODULES

• Macro Focus Generator

SERIES LNC-13MM
• Circular beam profile

Extended depth of focus

Low noise

LASER MODULES • Laser Macro Focus Generator

SERIES 13MMC • Rotationally symmetric beam profile

Extended depth of focus

LASER MODULES Compact Laser Macro Focus Generator

SERIES 5MM • Circular beam profile and

Extended depth of focus

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