13MM-S500-4+55CM-520-33-O11-T15-P-6

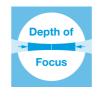
Laser Macro Focus Generator with approx. circular beam profile



FEATURES

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

- Spot diameter: 0.135 x 0.107 mm
- Wavelength: 520 nm
- Working distance: 483 mm
- Depth of focus: 36.2 mm
- Macro Focus Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 13MM-S500-4+55CM-520-33-O11-T15-P-6 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 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

13MM-S500-4+55CM-520-33-O11-T15-P-6



DATA SHEET

eries 13MM		
Order Code	13MM-S500-4+55CM-520-33-O11-T15-P-6	
Line profile	Gaussian Intensity Distribution	
Wavelength	520 +10/-5 nm	
Laser output power	33 mW	
Laser safety class	3В	
Focussing range	410-815 mm	
Working distance	483 mm	
Spot height	0.107 mm	
Spot width	0.135 mm	
Depth of focus	36.2 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 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 SERIES 13M	 Micro Focus Generator Elliptical Gaussian beam profile
LASER MODULES SERIES LNC-13MM	 Macro Focus Generator Circular beam profile Extended depth of focus Low noise
LASER MODULES SERIES 13MMC	 Laser Macro Focus Generator Rotationally symmetric beam profile Extended depth of focus
LASER MODULES SERIES 5MM	 Compact Laser Macro Focus Generator Circular beam profile and Extended depth of focus

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