13M-S250+55CM-520-60-O11-T15-PS-7

Laser Micro Focus Generator with elliptical Gaussian beam profile



FEATURES

Laser spot with elliptical Gaussian beam profile.

- Spot diameter: 0.017 x 0.06 mm
- Wavelength: 520 nm
- Working distance: 245 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-S250+55CM-520-60-O11-T15-PS-7 produces an elliptical laser spot with elliptical Gaussian intensity distribution.

The laser has integrated electronics type PS with micro-controller for control of the laser output power and serial interface (RS232). The output power can be controlled using the 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-S250+55CM-520-60-O11-T15-PS-7

Series	13M

Order Code	13M-S250+55CM-520-60-O11-T15-PS-7	
Line profile	Gaussian Intensity Distribution	
Wavelength	520 +10/-5 nm	
Laser output power	60 mW	
Laser safety class	3B	
Focussing range	205-410 mm	
Working distance	245 mm	
Spot height	0.06 mm	
Spot width	0.017 mm	
Rayleigh range	0.858 mm	
Diameter laser module	25/28 mm	
Module length	75.9 mm	
Installation length	350.9 mm	
Cable length	1.5 m	
Connector type	Lumberg SV70 IEC 61076-2-106	
Supply voltage	5 ± 0.2 V	
Max. current consumption	0.5 A	
Working temperature	15 - 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	0.6/0.2 µs
Rise / Fall time	200000/200000 µs	0.2/0.2 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 SERIES 13MM	▪ Macro Focus Generator ▪ **Circular** beam profile ▪ Extended depth of focus
LASER MODULES SERIES 13MC	▪ Micro Focus Generator ▪ **Rotationally symmetric**, Gaussian beam profile
LASER MODULES SERIES LNC-13M	▪ Micro Focus Generator ▪ Elliptical Gaussian beam profile ▪ Low noise
LASER MODULES SERIES 5MC	▪ **Compact** Laser Micro Focus Generator ▪ **Rotationally symmetric**, Gaussian beam profile
LASER MODULES SERIES 5M	▪ **Compact** Laser Micro Focus Generator ▪ Elliptical Gaussian beam profile

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