13M-M125+55CM-785-91-Q06-T12-CS-7

Laser Micro Focus Generator with elliptical Gaussian beam profile



FEATURES

Laser spot with elliptical Gaussian beam profile.

- Spot diameter: 0.022 x 0.039 mm
- Wavelength: 785 nm
- Working distance: 120 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-M125+55CM-785-91-Q06-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</u> <u>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-M125+55CM-785-91-Q06-T12-CS-7

Series

13M



DATA SHEET

Order Code	13M-M125+55CM-785-91-Q06-T12-CS-7	
Line profile	Gaussian Intensity Distribution	
Wavelength	785 +10/-10 nm	
Laser output power	91 mW	
Laser safety class	3В	
Focussing range	110-205 mm	
Working distance	120 mm	
Spot height	0.039 mm	
Spot width	0.022 mm	
Rayleigh range	0.982 mm	
Diameter laser module	25/28 mm	
Module length	75.9 mm	
Installation length	225.9 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 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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