

13MM-M125-4+55CM-685-27-H13-T12-C-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: 0.041 x 0.036 mm

Wavelength: 685 nmWorking distance: 111 mmDepth of focus: 2.98 mm

Macro Focus Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 13MM-M125-4+55CM-685-27-H13-T12-C-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 $\underline{type\ C}$ for control of the laser output power. The output power can be controlled using the $\underline{modulation\ input\ ports\ (TTL\ and\ analog)}$ 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

13MM-M125-4+55CM-685-27-H13-T12-C-6



Series	13MM	
Order Code	13MM-M125-4+55CM-685-27-H13-T12-C-6	
Line profile	Gaussian Intensity Distribution	
Wavelength	685 +10/-10 nm	
Laser output power	27 mW	
Laser safety class	3В	
Focussing range	110-205 mm	
Working distance	111 mm	
Spot height	0.036 mm	
Spot width	0.041 mm	
Depth of focus	2.98 mm	
Diameter laser module	25/28 mm	
Module length	84.3 mm	
Installation length	225.3 mm	
Cable length	1.5 m	
Connector type	Lumberg SV50 IEC 61076-2-106	
Supply voltage	5 ± 0.2 V	
Max. current consumption	0.25 A	
Working temperature	0 - 40 °C	
Modulation inputs	Analog	TTL
Input resistance	22 kOhm	22 kOhm
Max. modulation frequency	100 kHz	100 kHz
Modulation delay ON/OFF	1/0.5 µs	2/1 μs
Rise / Fall time	3/2 μs	3/2 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 • 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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