

## 13MM-M60-4+55CM-1550-14-Q04-T12-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: 0.043 x 0.038 mm
- Wavelength: 1550 nm
- Working distance: 45 mm
- Depth of focus: 1.55 mm

- Macro Focus Generator for extended depth of focus



## DESCRIPTION

The laser diode beam source type 13MM-M60-4+55CM-1550-14-Q04-T12-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 [type P](#) with micro-controller for control of the laser output power. 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

13MM-M60-4+55CM-1550-14-Q04-T12-P-6

Series	13MM	
Order Code	13MM-M60-4+55CM-1550-14-Q04-T12-P-6	
Line profile	Gaussian Intensity Distribution	
Wavelength	1550 +20/-20 nm	
Laser output power	14 mW	
Laser safety class	3R	
Focussing range	40-80 mm	
Working distance	45 mm	
Spot height	0.038 mm	
Spot width	0.043 mm	
Depth of focus	1.55 mm	
Diameter laser module	25/28 mm	
Module length	84.3 mm	
Installation length	159.3 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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