

## 13MMC-S250-8+95CM-658-11-B09-M60-C-6

Laser Macro Focus Generator with rotationally symmetric beam profile

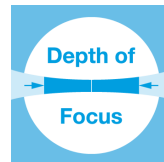


### FEATURES

Laser spot with rotationally symmetric, Gaussian beam profile and extended depth of focus.

- Spot diameter: 0.034 x 0.034 mm
- Wavelength: 658 nm
- Working distance: 234.7 mm
- Depth of focus: 2.86 mm

- Macro Focus Generator for extended depth of focus



## DESCRIPTION

The laser diode beam source type 13MMC-S250-8+95CM-658-11-B09-M60-C-6 produces a rotationally symmetric laser spot with extended depth of focus. The beam profile is rotationally symmetric and approx. Gaussian.

The laser type 13MMC-S250-8+95CM-658-11-B09-M60-C-6 produces a circular laser spot with extended depth of focus. The beam profile is approx. Gaussian.

The laser has integrated electronics [type C](#) 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

13MMC-S250-8+95CM-658-11-B09-M60-C-6

<b>Series</b>	13MMC	
<b>Order Code</b>	13MMC-S250-8+95CM-658-11-B09-M60-C-6	
<b>Line profile</b>	Gaussian Intensity Distribution	
<b>Wavelength</b>	658 +5/-5 nm	
<b>Laser output power</b>	11 mW	
<b>Laser safety class</b>	3B	
<b>Focussing range</b>	205-410 mm	
<b>Working distance</b>	234.7 mm	
<b>Spot height</b>	0.034 mm	
<b>Spot width</b>	0.034 mm	
<b>Depth of focus</b>	2.86 mm	
<b>Diameter laser module</b>	25/28 mm	
<b>Module length</b>	130.3 mm	
<b>Installation length</b>	395 mm	
<b>Cable length</b>	1.5 m	
<b>Connector type</b>	Lumberg SV50 IEC 61076-2-106	
<b>Supply voltage</b>	5 ± 0.2 V	
<b>Max. current consumption</b>	0.25 A	
<b>Working temperature</b>	0 - 40 °C	
<b>Modulation inputs</b>	Analog	TTL
<b>Input resistance</b>	22 kOhm	22 kOhm
<b>Max. modulation frequency</b>	100 kHz	100 kHz
<b>Modulation delay ON/OFF</b>	1/0.5 µs	2/1 µs
<b>Rise / Fall time</b>	3/2 µs	3/2 µs

## ACCESSORIES

<b>50HD-15</b>	Hex key WS 1.5
<b>9D-12</b>	Screwdriver WS 1.2
<b>PS051003E</b>	Power Supply 5 V

## RELATED PRODUCTS

### LASER MODULES SERIES 13MC

- Micro Focus Generator
- **Rotationally symmetric**, Gaussian beam profile

### LASER MODULES SERIES LNC-13MMC

- Laser Macro Focus Generator
- **Rotationally symmetric** beam profile
- Extended depth of focus
- Low noise

### LASER MODULES SERIES 13MM

- Macro Focus Generator
- **Circular** 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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