

13MMC-M60-8+95CM-635-5-B07-M60-CS-7

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: 0.008 x 0.008 mm
- Wavelength: 635 nm
- Working distance: 45 mm
- Depth of focus: 0.159 mm

- Macro Focus Generator for extended depth of focus
- With RS232 interface



DESCRIPTION

The laser diode beam source type 13MMC-M60-8+95CM-635-5-B07-M60-CS-7 produces a rotationally symmetric laser spot with extended depth of focus. The beam profile is rotationally symmetric and approx. Gaussian.

The laser type 13MMC-M60-8+95CM-635-5-B07-M60-CS-7 produces a circular laser spot with extended depth of focus. The beam profile is approx. Gaussian.

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

13MMC-M60-8+95CM-635-5-B07-M60-CS-7

Series	13MMC	
Order Code	13MMC-M60-8+95CM-635-5-B07-M60-CS-7	
Line profile	Gaussian Intensity Distribution	
Wavelength	635 +8/-8 nm	
Laser output power	5 mW	
Laser safety class	3R	
Focussing range	30-70 mm	
Working distance	45 mm	
Spot height	0.008 mm	
Spot width	0.008 mm	
Depth of focus	0.159 mm	
Diameter laser module	25/28 mm	
Module length	130.3 mm	
Installation length	205.3 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

PS051007E

Power Supply 5 V for laser modules with RS232 interface

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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