

13MMC-S250-8+95CR-635-2-B08-M60-C-6

Laser Macro Focus Generator with rotationally symmetric beam profile

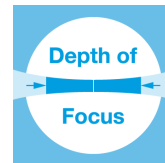


FEATURES

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

- Spot diameter: 0.033 x 0.033 mm
- Wavelength: 635 nm
- Working distance: 234.7 mm
- Depth of focus: 2.76 mm

- Macro Focus Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 13MMC-S250-8+95CR-635-2-B08-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+95CR-635-2-B08-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+95CR-635-2-B08-M60-C-6

| | | |
|---------------------------|-------------------------------------|---------|
| Series | 13MMC | |
| Order Code | 13MMC-S250-8+95CR-635-2-B08-M60-C-6 | |
| Line profile | Gaussian Intensity Distribution | |
| Wavelength | 635 +5/-5 nm | |
| Laser output power | 2 mW | |
| Laser safety class | 3R | |
| Focussing range | 205-410 mm | |
| Working distance | 234.7 mm | |
| Spot height | 0.033 mm | |
| Spot width | 0.033 mm | |
| Depth of focus | 2.76 mm | |
| Diameter laser module | 25/28 mm | |
| Module length | 114.3 mm | |
| Installation length | 349 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 |
| PS051003E | 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

This is a printout of the page https://sukhamburg.com/products/details/13MMC-S250-8_95CR-635-2-B08-M60-C-6 from 5/6/2024

CONTACT

For more information please contact:

Schäfter + Kirchhoff GmbH

Kieler Str. 212

22525 Hamburg

Germany

Tel: +49 40 85 39 97-0

Fax: +49 40 85 39 97-79

info@sukhamburg.de

www.sukhamburg.com

LEGAL NOTICE

Copyright 2020 Schäfter+Kirchhoff GmbH. All rights reserved.

Text, image, graphic, sound, video and animation files and their arrangement on Schäfter+Kirchhoff GmbH webpages are protected by copyright and other protective laws. The content may not be copied for commercial use or reproduced, modified or used on other websites. [\[more\]](#)