

5LMM15-S150-1+55CM-685-24-H13-A8-C-6

Macro Line Generator with a fan angle



FEATURES

Laser line with a fan angle, Gaussian intensity distribution and extended depth of focus.

- Line length: 39.7 mm
- Line width: 148 μm
- Wavelength: 685 nm
- Working distance: 138 mm
- Depth of focus: 68.7 mm

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- Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 5LMM15-S150-1+55CM-685-24-H13-A8-C-6 has a fan angle of 15° and an extended depth of focus.

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 14 %. The line width is constant along the laser line. Across the laser line the intensity distribution 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 beam parameters like line length and line width increase proportionally to the working distance. A fine-adjustment of the distance between laser and target is recommended for fine-focusing.

TECHNICAL DATA

5LMM15-S150-1+55CM-685-24-H13-A8-C-6

| | | |
|---------------------------|--------------------------------------|-------------|
| Series | 5LMM | |
| Order Code | 5LMM15-S150-1+55CM-685-24-H13-A8-C-6 | |
| Line profile | Gaussian Intensity Distribution | |
| Line type | Laser Macro Line | |
| Wavelength | 685 +10/-10 nm | |
| Laser output power | 24 mW | |
| Laser safety class | 3B | |
| Fan angle α | 15 deg | |
| Focussing range | 115-250 mm | |
| Working distance | 138 mm | |
| Line length | 39.7 mm | |
| Line width | 0.148 mm | |
| Depth of focus | 68.7 mm | |
| Edge intensity | 14 % | |
| Diameter laser module | 25/28 mm | |
| Module length | 78.5 mm | |
| Installation length | 246.5 mm | |
| Cable length | 1.5 m | |
| Connector type | Lumberg SV50 IEC 61076-2-106 | |
| Supply voltage | 5 \pm 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 μ s | 2/1 μ s |
| Rise / Fall time | 3/2 μ s | 3/2 μ s |

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 5LM

- Micro Line, **small** fan angle
- Gaussian intensity distribution

LASER MODULES SERIES LNC-5LMM

- Macro Line, **small** fan angle
- Gaussian intensity distribution
- Extended depth of focus
- Low Noise

LASER MODULES SERIES 13LRM

- Macro Line Generator, fan angle
- Uniform intensity distribution
- Extended depth of focus

LASER MODULES SERIES 13LNM

- Micro Line Generator, **small** fan angle
- Uniform intensity distribution
- Extended depth of focus

LASER MODULES SERIES 5LPM+25CM

- **Compact** Macro Line, **large** fan angle
- Gaussian intensity distribution
- Extended depth of focus

LASER MODULES SERIES 5LMM+25CM

- **Compact** Micro Line, **small** fan angle
- Gaussian intensity distribution
- Extended depth of focus

LASER MODULES SERIES 5LPM

- Macro Line, **large** fan angle
- Gaussian intensity distribution
- Extended depth of focus

This is a printout of the page https://sukhamburg.com/products/details/5LMM15-S150-1_55CM-685-24-H13-A8-C-6 from 5/2/2024

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