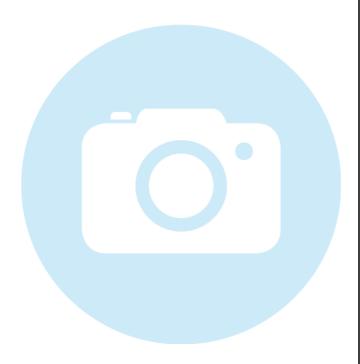


5LMM8-S150-1+55CM-520-48-O11-A7.5-PS-7

Macro Line Generator with a fan angle



FEATURES

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

Line length: 21.8 mm
Line width: 118 µm
Wavelength: 520 nm
Working distance: 138 mm
Depth of focus: 52.1 mm

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





DESCRIPTION

The laser diode beam source type 5LMM8-S150-1+55CM-520-48-O11-A7.5-PS-7 has a fan angle of 8° and an extended depth of focus.

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 18 %. The line width is constant along the laser line. Across the laser line the intensity distribution is approx. Gaussian.

The laser has integrated electronics <u>type PS</u> with micro-controller for control of the laser output power and serial interface (RS232). The output power can be controlled using the <u>modulation input ports (TTL and analog)</u> 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

5LMM8-S150-1+55CM-520-48-O11-A7.5-PS-7

| Series | eries 5LMM | |
|---------------------------|--|------------|
| Order Code | 5LMM8-S150-1+55CM-520-48-O11-A7.5-PS-7 | |
| Line profile | Gaussian Intensity Distribution | |
| Line type | Laser Macro Line | |
| Wavelength | 520 +10/-5 nm | |
| Laser output power | 48 mW | |
| Laser safety class | 3B | |
| Fan angle α | 8 deg | |
| Focussing range | 115-250 mm | |
| Working distance | 138 mm | |
| Line length | 21.8 mm | |
| Line width | 0.118 mm | |
| Depth of focus | 52.1 mm | |
| Edge intensity | 18 % | |
| Diameter laser module | 25/28 mm | |
| Module length | 78.5 mm | |
| Installation length | 246.5 mm | |
| Cable length | 1.5 m | |
| Connector type | Lumberg SV70 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 | 0.001 kHz | 250 kHz |
| Modulation delay ON/OFF | 3000/3000 μs | 0.6/0.2 μs |
| Rise / Fall time | 200000/200000 μs | 0.2/0.2 μs |
| · | | |



Interface RS232

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

PS051007E Power Supply 5 V for laser modules with RS232

interface

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/5LMM8-S150-1 55CM-520-48-O11-A7 5-PS-7 from 4/19/2024

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