

5LT-250-2+55CM-1550-25-Q04-A7.5-P-6

Semi-telecentric Micro Line Generator



FEATURES

Semi-telecentric laser line with constant line length of 2.4 mm.

Line length: 2.4 mm
Line width: 110 μm
Wavelength: 1550 nm
Working distance: 250 mm

 Micro Line Generator for small laser line widths and high power density in the focal plane



DESCRIPTION

The laser diode beam source type 5LT-250-2+55CM-1550-25-Q04-A7.5-P-6 produces a semi-telecentric laser line with 2.4 mm line length. In this case the line length is given on the 13.5%-level. The intensity profile is Gaussian in line direction and the line is truncated at 4.8 mm. The line width is constant along the laser line. Across the laser line the intensity distribution is Gaussian.

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

For this laser type the working distance is fixed. A fine-adjustment of the distance between laser and target is recommended for fine-focusing in order to achieve minimal line width.



TECHNICAL DATA

5LT-250-2+55CM-1550-25-Q04-A7.5-P-6

| Series | | 5LT | |
|---------------------------|-------------------------------------|------------|--|
| Order Code | 5LT-250-2+55CM-1550-25-Q04-A7.5-P-6 | | |
| Line profile | Gaussian Intensity Distribution | | |
| Line type | Laser Micro Line | | |
| Wavelength | 1550 +20/-20 nm | | |
| Laser output power | | 25 mW | |
| Laser safety class | 3R | | |
| Focussing range | 250-250 mm | | |
| Working distance | 250 mm | | |
| Line length | 2.4 mm | | |
| Line width | 0.11 mm | | |
| Rayleigh range | 12.2 mm | | |
| Edge intensity | 37 % | | |
| Diameter laser module | 25/28 mm | | |
| Module length | 73.1 mm | | |
| Installation length | 353.1 mm | | |
| Cable length | 1.5 m | | |
| Connector type | Lumberg SV50 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 | 0.01 kHz | 250 kHz | |
| Modulation delay ON/OFF | 3000/3000 μs | 0.5/0.2 μs | |
| Rise / Fall time | 40000/40000 μs | 0.5/0.5 μs | |
| | | | |

DOWNLOADS





ACCESSORIES

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 Semi-telecentric Macro Line **SERIES 5LTM-2** Gaussian intensity distribution

Constant line length ca. 2 mm

Extended depth of focus

LASER MODULES Semi-telecentric Macro Line **SERIES LNC-5LTM-2**

 Gaussian intensity distribution ■ Constant line length ca. 2 mm

Extended depth of focus

Low noise

LASER MODULES Semi-telecentric Micro Line **SERIES 13LT** Uniform intensity distribution

Constant line length 15 mm

LASER MODULES Compact semi-telecentric Micro Line

SERIES 5LT-1+25CM Gaussian intensity distribution

Constant line length ca. 4.8 mm

LASER MODULES Semi-telecentric Micro Line **SERIES 5LT-1**

Gaussian intensity distribution

Constant line length ca. 4.8 mm

LASER MODULES Compact semi-telecentric Micro Line

SERIES 5LT-2+25CM Gaussian intensity distribution

Constant line length ca. 2 mm



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CONTACT

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