

5LT-330-1+25CM-785-90-Q06-A8-S-6

Semi-telecentric compact Micro Line Generator



FEATURES

Semi-telecentric compact laser line with constant line length of 4.8 mm.

- Line length: 4.8 mm
- Line width: 155 μm
- Wavelength: 785 nm
- Working distance: 324 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-330-1+25CM-785-90-Q06-A8-S-6 produces a semi-telecentric laser line with 4.8 mm line length. The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 3 %. The line width is constant along the laser line. Across the laser line the intensity distribution is Gaussian.

The laser has integrated electronics [type S](#) 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.

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-330-1+25CM-785-90-Q06-A8-S-6

| | | |
|----------------------------------|----------------------------------|--------------|
| Series | 5LT | |
| Order Code | 5LT-330-1+25CM-785-90-Q06-A8-S-6 | |
| Line profile | Gaussian Intensity Distribution | |
| Line type | Laser Micro Line | |
| Wavelength | 785 +10/-10 nm | |
| Laser output power | 90 mW | |
| Laser safety class | 3B | |
| Focussing range | 324-324 mm | |
| Working distance | 324 mm | |
| Line length | 4.8 mm | |
| Line width | 0.155 mm | |
| Rayleigh range | 48.1 mm | |
| Edge intensity | 3 % | |
| Diameter laser module | 12 mm | |
| Module length | 60.7 mm | |
| Installation length | 414.7 mm | |
| Cable length | 1.5 m | |
| Connector type | Lumberg SV50 IEC 61076-2-106 | |
| Supply voltage | 5 ± 0.25 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 | 50 kHz | 1000 kHz |
| Modulation delay ON/OFF | 4/0.5 µs | 0.05/0.05 µs |
| Rise / Fall time | 5/4 µs | 0.1/0.02 µs |

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ACCESSORIES

9D-12 Screwdriver WS 1.2

PS051003E Power Supply 5 V

RELATED PRODUCTS

LASER MODULES SERIES 5LTM-1+25CM

- **Compact** semi-telecentric Macro Line
- Gaussian intensity distribution
- Constant line length ca. **4.8 mm**
- Extended depth of focus

LASER MODULES SERIES 13LT

- Semi-telecentric Micro Line
- Uniform intensity distribution
- Constant line length **15 mm**

LASER MODULES SERIES 5LT-2+25CM

- **Compact** semi-telecentric Micro Line
- Gaussian intensity distribution
- Constant line length ca. **2 mm**

LASER MODULES SERIES 5LT-1

- Semi-telecentric Micro Line
- Gaussian intensity distribution
- Constant line length ca. **4.8 mm**

LASER MODULES SERIES 5LT-2

- Semi-telecentric Micro Line
- Gaussian intensity distribution
- Constant line length ca. **2 mm**

This is a printout of the page https://sukhamburg.com/products/details/5LT-330-1_25CM-785-90-Q06-A8-S-6 from 6/8/2023

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