

5LTM-250-22+25CM-639-10-H18-A8-S-6

Semi-telecentric compact Macro Line Generator



FEATURES

Semi-telecentric compact laser line with constant line length of 2.4 mm and extended depth of focus.

Line length: 2.4 mm
Line width: 134 μm
Wavelength: 639 nm
Working distance: 245 mm
Depth of focus: 44.5 mm

Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 5LTM-250-22+25CM-639-10-H18-A8-S-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 approx. Gaussian.

The laser has integrated electronics $\underline{type\ S}$ for control of the laser output power. The output power can be controlled using the $\underline{modulation\ input\ ports\ (TTL\ and\ analog)}$ 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

5LTM-250-22+25CM-639-10-H18-A8-S-6

Line profile Line type Laser Macro Line Wavelength 639 +10/-10 nm Laser output power 10 mW Laser safety class Focussing range 245-245 mm Working distance Line length 2.4 mm Line width 0.134 mm Depth of focus 44.5 mm Edge intensity 40 % Diameter laser module Module length 66.1 mm Installation length 66.1 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 Modulation inputs Analog TTL Input resistance 22 kOhm Ax. modulation frequency Modulation delay ON/OFF 4/0.5 µs 0.05/0.05 µs Modulation delay ON/OFF 4/0.5 µs 0.05/0.05 µs	Series		5LTM
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Modulation delay ON/OFF 4/0.5 μs 0.05/0.05 μs	Input resistance	22 kOhm	22 kOhm
	Max. modulation frequency	50 kHz	1000 kHz
I Total Control of the Control of th	Modulation delay ON/OFF	4/0.5 μs	0.05/0.05 μs
Rise / Fall time 5/4 μs 0.1/0.02 μs	Rise / Fall time	5/4 μs	0.1/0.02 μs

DOWNLOADS





ACCESSORIES

9D-12 Screwdriver WS 1.2

PS051003E Power Supply 5 V

RELATED PRODUCTS

LASER MODULES SERIES 5LT-2+25CM Compact semi-telecentric Micro Line

Gaussian intensity distribution

Constant line length ca. 2 mm

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

Gaussian intensity distribution

Constant line length ca. 2 mm

Extended depth of focus

Low noise

LASER MODULES
SERIES 13LTM

■ Semi-telecentric Macro Line

Uniform intensity distribution

Constant line length 15 mm

Extended depth of focus

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 5LTM-1 Semi-telecentric Macro Line

Gaussian intensity distribution

Constant line length ca. 4.8 mm

Extended depth of focus

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

Gaussian intensity distribution

Constant line length ca. 2 mm

Extended depth of focus



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