

5LTM-250-11+25CM-785-59-Q06-A8-S-6

Semi-telecentric compact Macro Line Generator



FEATURES

Semi-telecentric compact laser line with constant line length of 4.8 mm and extended depth of focus.

Line length: 4.8 mm
Line width: 284 μm
Wavelength: 785 nm
Working distance: 245 mm
Depth of focus: 219 mm

Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 5LTM-250-11+25CM-785-59-Q06-A8-S-6 produces a semi-telecentric laser line with 4.8 mm line length and extended depth of focus. 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 approx. Gaussian.

The laser has integrated electronics <u>type S</u> 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

5LTM-250-11+25CM-785-59-Q06-A8-S-6

Line profile Line type Laser Macro Line Wavelength 785 +10/-10 nm Laser output power 59 mW Laser safety class 3E Focussing range 245-245 mm Working distance 245 mm Line length 4.8 mm Line width 0.284 mm Depth of focus 219 mm Edge intensity 3% Diameter laser module 12 mm Installation length 66.1 mm Installation length 341.1 mm Cable length 59 mW Line width 0.284 mm	Series		5LTM
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Depth of focus219 mmEdge intensity3 %Diameter laser module12 mmModule length66.1 mmInstallation length341.1 mmCable length1.5 mConnector typeLumberg SV50 IEC 61076-2-106Supply voltage5 ± 0.25 VMax. current consumption0.25 AWorking temperature0 - 40 °CModulation inputsAnalogInput resistance22 kOhmMax. modulation frequency50 kHz1000 kHz	Line length	4.8 mm	
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Modulation inputs Analog TTL Input resistance 22 kOhm 22 kOhm Max. modulation frequency 50 kHz 1000 kHz	Max. current consumption	0.25 A	
Input resistance 22 kOhm 22 kOhm Max. modulation frequency 50 kHz 1000 kHz	Working temperature	0 - 40 °C	
Max. modulation frequency 50 kHz 1000 kHz	Modulation inputs	Analog	TTL
	Input resistance	22 kOhm	22 kOhm
Modulation delay ON/OFF4/0.5 μs0.05/0.05 μs	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	Rise / Fall time		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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