

5LTM-50-11+25CM-785-59-Q06-A8-S-6

Semi-telecentric compact Macro Line Generator



FEATURES

Semi-telecentric compact laser line with constant line length of 4.3 mm and extended depth of focus.

Line length: 4.3 mm
Line width: 57 μm
Wavelength: 785 nm
Working distance: 39 mm
Depth of focus: 8.75 mm

Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 5LTM-50-11+25CM-785-59-Q06-A8-S-6 produces a semi-telecentric laser line with 4.3 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 <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-50-11+25CM-785-59-Q06-A8-S-6

Line profileGaussian Intensity DistribLine typeLaser MacroWavelength785 +10/-1Laser output power59Laser safety class39-39Working distance39Line length4.3Line width0.057Depth of focus8.76Edge intensity5Diameter laser module12Module length66.3Installation length135.3Cable length2Connector typeLumberg SV50 IEC 61076-2Supply voltage5 ± 0Max. current consumption0	Series		5LTM	
Line type Laser Macro Wavelength 785 +10/-1 Laser output power 59 Laser safety class Focussing range 39-39 Working distance 39 Line length 4.3 Line width 0.057 Depth of focus 8.75 Edge intensity Diameter laser module 12 Module length 66.3 Installation length 135.3 Cable length 135.3 Cannector type Lumberg SV50 IEC 61076-2 Supply voltage 5 ± 0 Max. current consumption 0.4	Order Code	5LTM-50-11+25CM-785-59-Q06-A8-S-6		
Wavelength 785 ±10/-1 Laser output power 59 Laser safety class 39-39 Working distance 39 Line length 4.3 Line width 0.057 Depth of focus 8.75 Edge intensity 12 Diameter laser module 12 Module length 66.1 Installation length 135.1 Cable length 1 Connector type Lumberg SV50 IEC 61076-2 Supply voltage 5 ± 0 Max. current consumption 0 Working temperature 0 - 4	Line profile	Gaussian Intensity Distribution		
Laser output power 59 Laser safety class Focussing range 39-39 Working distance 39 Line length 4.3 Line width 0.055 Depth of focus 8.75 Edge intensity Diameter laser module 12 Module length 66.3 Installation length 135.3 Cable length 135.3 Cable length 5 ± 0 Max. current consumption 0.4	Line type	Laser Macro Line		
Laser safety class Focussing range 39-39 Working distance 39 Line length 4.3 Line width 0.055 Depth of focus 8.75 Edge intensity Diameter laser module 12 Module length 66.1 Installation length 135.3 Cable length 1 Connector type Lumberg SV50 IEC 61076-2 Supply voltage 5 ± 0 Max. current consumption 0.4	Wavelength	785 +10/-10 nm		
Focussing range 39-39 Working distance 39 Line length 4.3 Line width 0.057 Depth of focus 8.75 Edge intensity Diameter laser module 12 Module length 66.1 Installation length 135.1 Cable length 1 Connector type Lumberg SV50 IEC 61076-2 Supply voltage 5 ± 0 Max. current consumption 0 Working temperature 0 - 4	Laser output power	59 mW		
Working distance 39 Line length 4.3 Line width 0.057 Depth of focus 8.75 Edge intensity Diameter laser module 12 Module length 66.1 Installation length 135.1 Cable length 1 Connector type Lumberg SV50 IEC 61076-2 Supply voltage 5±0 Max. current consumption 0 Working temperature 0-4	Laser safety class	3B		
Line length 4.3 Line width 0.057 Depth of focus 8.75 Edge intensity Diameter laser module 12 Module length 66.3 Installation length 135.1 Cable length 1 Connector type Lumberg SV50 IEC 61076-2 Supply voltage 5 ± 0. Max. current consumption 0.4	Focussing range	39-39 mm		
Line width 0.057 Depth of focus 8.75 Edge intensity 12 Diameter laser module 12 Module length 66.3 Installation length 135.1 Cable length 1 Connector type Lumberg SV50 IEC 61076-2 Supply voltage 5 ± 0 Max. current consumption 0 Working temperature 0 - 4	Working distance	39 mm		
Depth of focus 8.75 Edge intensity Diameter laser module 12 Module length 66.1 Installation length 135.3 Cable length 1 Connector type Lumberg SV50 IEC 61076-2 Supply voltage 5 ± 0 Max. current consumption 0 Working temperature 0 - 4	Line length	4.3 mm		
Edge intensity Diameter laser module Module length 66.1 Installation length 135.3 Cable length Connector type Lumberg SV50 IEC 61076-2 Supply voltage 5 ± 0 Max. current consumption 0 Working temperature	Line width	0.057 mm		
Diameter laser module Module length 66.1 Installation length 135.1 Cable length Connector type Lumberg SV50 IEC 61076-2 Supply voltage 5 ± 0 Max. current consumption Ownering temperature	Depth of focus	8.75 mm		
Module length 66.3 Installation length 135.3 Cable length1Connector typeLumberg SV50 IEC $61076-2$ Supply voltage 5 ± 0.0 Max. current consumption 0.0 Working temperature 0.0	Edge intensity	3 %		
Installation length 135.3 Cable length 135.3 Connector type Lumberg SV50 IEC 61076-2 Supply voltage 5 ± 0.9 Max. current consumption 0.9 Working temperature 0.9	Diameter laser module	12 mm		
Cable length1Connector typeLumberg SV50 IEC 61076-2Supply voltage 5 ± 0 Max. current consumption0Working temperature $0 - 4$	Module length	66.1 mm		
Connector typeLumberg SV50 IEC 61076-2Supply voltage 5 ± 0 Max. current consumption0Working temperature $0 - 4$	Installation length	135.1 mm		
Supply voltage 5 ± 0.0 Max. current consumption0.0Working temperature0 - 4	Cable length	1.5 m		
Max. current consumption 0. Working temperature 0 - 4	Connector type	Lumberg SV50 IEC 61076-2-106		
Working temperature 0 - 4	Supply voltage	5 ± 0.25 V		
	Max. current consumption	0.25 A		
Modulation inputs Analog	Working temperature	0 - 40 °C		
	Modulation inputs	Analog	TTL	
Input resistance 22 kOhm 22 k	Input resistance	22 kOhm	22 kOhm	
Max. modulation frequency50 kHz1000	Max. modulation frequency	50 kHz	1000 kHz	
Modulation delay ON/OFF4/0.5 μs0.05/0.0	Modulation delay ON/OFF	4/0.5 μs	0.05/0.05 μs	
Rise / Fall time 5/4 μ s 0.1/0.0	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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