

5LM15-S50+55CM-685-39-H13-A8-C-6

Micro Line Generator with a fan angle



FEATURES

Laser line with a fan angle and Gaussian intensity distribution.

Line length: 11.9 mm
Line width: 19 μm
Wavelength: 685 nm
Working distance: 42 mm

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



DESCRIPTION

The laser diode beam source type 5LM15-S50+55CM-685-39-H13-A8-C-6 has a fan angle of 15°.

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 14 %. The line width is constant along the laser line. Across the laser line the intensity distribution is Gaussian.

The laser has integrated electronics $\underline{type\ C}$ 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.

The working distance can be adjusted by adjusting the focus setting. Please note that beam parameters like line length and line width increase proportionally to the working distance.



A fine-adjustment of the distance between laser and target is recommended for fine-focusing.

TECHNICAL DATA

5LM15-S50+55CM-685-39-H13-A8-C-6

	5LM
5LM15-S50+55CM-685-39-H13-A8-C-6	
Gaussian Intensity Distribution	
Laser Micro Line	
685 +10/-10 nm	
39 mW	
3В	
an angle α 15 deg	
Focussing range 30-65 mm	
prking distance 42 mm	
11.9 mm	
0.019 mm	
0.865 mm	
ntensity 14 %	
25/28 mm	
e length 77.3 mm	
in length 149.3 mm	
	1.5 m
Lumberg SV50 IEC 61076-2-106	
	5 ± 0.2 V
	0.25 A
	0 - 40 °C
Analog	TTL
22 kOhm	22 kOhm
100 kHz	100 kHz
1/0.5 µs	2/1 μs
3/2 μs	3/2 µs
	Gaussian Inter



ACCESSORIES

50HD-15 Hex key WS 1.5

9D-12 Screwdriver WS 1.2

13MK-25-36-10-F Mounting Console with flat base plate

Mounting Console with base plate with dovetail 13MK-25-36-10-M

profile

PS051003E Power Supply 5 V

RELATED PRODUCTS

LASER MODULES ■ Macro Line, small fan angle **SERIES 5LMM** Gaussian intensity distribution

Extended depth of focus

LASER MODULES Micro Line, small fan angle **SERIES LNC-5LM**

Gaussian intensity distribution

Low noise

LASER MODULES Micro Line Generator, fan angle **SERIES 13LR**

Uniform intensity distribution

LASER MODULES Micro Line, small fan angle **SERIES 13LN**

Uniform intensity distribution

Thin lines

LASER MODULES ■ Compact Micro Line, large fan angle

SERIES 5LP+25CM Gaussian intensity distribution

LASER MODULES ■ Compact Micro Line, small fan angle

SERIES 5LM+25CM Gaussian intensity distribution

LASER MODULES Micro Line, large fan angle

SERIES 5LP Gaussian intensity distribution



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