

13LRM12-S1000-1.5+55CM-685-24-H13-T12-C-6

Laser Macro Line Generator with a fan angle



FEATURES

Laser line with a fan angle, approx. uniform intensity distributionand extended depth of focus.

Line length: 201 mm
Line width: 660 μm
Wavelength: 685 nm
Working distance: 965 mm
Depth of focus: 1360 mm

Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 13LRM12-S1000-1.5+55CM-685-24-H13-T12-C-6 has a fan angle of 12° with a constant line width and approx. uniform intensity distribution along the laser line as well an extended depth of focus.

The fine-structure is a <u>chain of equidistant dots</u> with a spacing of approx. 1/2 the line width. The line width is constant along the laser line. Across the laser line the intensity distribution is approx. Gaussian.

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

13LRM12-S1000-1.5+55CM-685-24-H13-T12-C-6

Series 13LRM	
13LRM12-S1000-1.5+55CM-685-24-H13-T12-C-6	
Constant Intensity Distribution	
Laser Macro Line	
685 +10/-10 nm	
24 mW	
	3B
	12 deg
Focussing range 780-1330 mm	
distance 965 mm	
201 mm	
0.66 mm	
1360 mm	
80 %	
25/28 mm	
1951 86.8 mm	
1081.8 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
	Constant Inter



DOWNLOADS



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

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

profile

PS051003E Power Supply 5 V

RELATED PRODUCTS

LASER MODULES SERIES 13LR Micro Line Generator, fan angle

Uniform intensity distribution

LASER MODULES
SERIES 13LNM

Micro Line Generator, small fan angle

Uniform intensity distribution

Extended depth of focus

LASER MODULES SERIES 5LMM+25CM Compact Micro Line, small fan angle

Gaussian intensity distribution

Extended depth of focus

LASER MODULES SERIES 5LPM+25CM Compact Macro Line, large fan angle

Gaussian intensity distribution

Extended depth of focus

LASER MODULES SERIES 5LMM ■ Macro Line, small fan angle

Gaussian intensity distribution

Extended depth of focus

LASER MODULES SERIES 5LPM ■ Macro Line, large fan angle

Gaussian intensity distribution

Extended depth of focus



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