

13LR12-S500+55CM-520-56-O11-T15-P-6

Laser Micro Line Generator with a fan angle



FEATURES

Laser line with a fan angle and approx. uniform intensity distribution.

Line length: 103 mm
Line width: 120 μm
Wavelength: 520 nm
Working distance: 496 mm

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



DESCRIPTION

The laser diode beam source type 13LR12-S500+55CM-520-56-O11-T15-P-6 has a fan angle of 12° with a constant line width and approx. uniform intensity distribution along the laser line.

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

The laser has integrated electronics <u>type P</u> with micro-controller 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.

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.



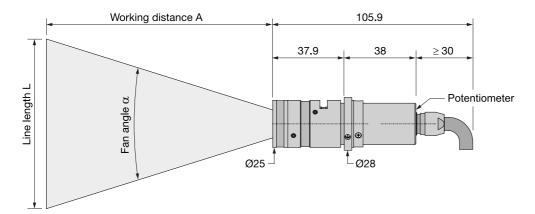
A fine-adjustment of the distance between laser and target is recommended for fine-focusing.

TECHNICAL DATA

13LR12-S500+55CM-520-56-O11-T15-P-6

Series 13LR	
13LR12-S500+55CM-520-56-O11-T15-P-6	
Constant Intensity Distribution	
Laser Micro Line	
520 +10/-5 nm	
56 mW	
	3B
gle α 12 deg	
cussing range 415-815 mm	
ce 496 mm	
103 mm	
0.12 mm	
43.7 mm	
ntensity 80 %	
25/28 mm	
75.9 mm	
601.9 mm	
	1.5 m
Lumberg SV50 IEC 61076-2-106	
5 ± 0.2 V	
	0.5 A
	15 - 40 °C
Analog	TTL
9 kOhm	9 kOhm
0.01 kHz	250 kHz
3000/3000 μs	0.5/0.2 μs
40000/40000 μs	0.5/0.5 μs
	Constant Inter

Dimensions (for a complete dimensional drawing please refer to the downloads section)



DOWNLOADS



ACCESSORIES

50HD-15 Hex key WS 1.5

9D-12 Screwdriver WS 1.2

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

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

profile

Power Supply 5 V PS051003E

RELATED PRODUCTS

LASER MODULES Macro Line Generator, fan angle **SERIES 13LRM**

Uniform intensity distribution

Extended depth of focus

LASER MODULES • Micro Line, small fan angle **SERIES 13LN** Uniform intensity distribution

Thin lines



LASER MODULES • Compact Micro Line, small fan angle

SERIES 5LM+25CM • Gaussian intensity distribution

LASER MODULES • Compact Micro Line, large fan angle

SERIES 5LP+25CM • Gaussian intensity distribution

LASER MODULES ■ Micro Line, small fan angle

SERIES 5LM • Gaussian intensity distribution

LASER MODULES • Micro Line, large fan angle

SERIES 5LP • Gaussian intensity distribution

This is a printout of the page $\underline{\text{https://sukhamburg.com/products/details/13LR12-S500}}$ 55CM-520-56-O11-T15-P-6 from 4/26/2024

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