

13LRM12-S000-1.5+55CM-405-47-X15-T15-P-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: 409 mm
Line width: 778 μm
Wavelength: 405 nm
Working distance: 2000 mm

Working distance: 2000 mrDepth of focus: 3000 mm

Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 13LRM12-S000-1.5+55CM-405-47-X15-T15-P-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 <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

13LRM12-S000-1.5+55CM-405-47-X15-T15-P-6

Series 13LRM	
13LRM12-S000-1.5+55CM-405-47-X15-T15-P-6	
Constant Intensity Distribution	
Laser Macro Line	
405 +5/-5 nm	
47 mW	
	3B
	12 deg
Focussing range 1330-inf mm	
Working distance 2000 mm	
Line length 409 mm	
0.778 mm	
Depth of focus 3000 mm	
Edge intensity 80 %	
25/28 mm	
Module length 86.8 mm	
n length 2116.8 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



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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