

13LRM47-S250-1.5+55CM-405-7-Y07-T15-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: 200 mm
Line width: 97 μm
Wavelength: 405 nm
Working distance: 240 mm
Depth of focus: 50.1 mm

Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 13LRM47-S250-1.5+55CM-405-7-Y07-T15-C-6 has a fan angle of 47° 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

13LRM47-S250-1.5+55CM-405-7-Y07-T15-C-6

Series 13LRM	
13LRM47-S250-1.5+55CM-405-7-Y07-T15-C-6	
Constant Intensity Distribution	
Laser Macro Line	
405 +5/-5 nm	
	7 mW
	3B
	47 deg
	195-355 mm
rking distance 240 mm	
ne length 200 mm	
0.097 mm	
oth of focus 50.1 mm	
lge intensity 80 %	
25/28 mm	
86.8 mm	
	356.8 mm
	1.5 m
Lumberg SV50 II	EC 61076-2-106
	5 ± 0.2 V
	0.5 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 Inte



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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CONTACT

For more information please contact: Schäfter + Kirchhoff GmbH Kieler Str. 212 22525 Hamburg Germany

Tel: +49 40 85 39 97-0 Fax: +49 40 85 39 97-79

info@sukhamburg.de www.sukhamburg.com

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