

13LRM25-S1000-1.5+55CM-640-15-H22-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: 425 mm
Line width: 614 µm
Wavelength: 640 nm
Working distance: 966 mm
Depth of focus: 1270 mm

Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 13LRM25-S1000-1.5+55CM-640-15-H22-T15-C-6 has a fan angle of 25° 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

13LRM25-S1000-1.5+55CM-640-15-H22-T15-C-6

·	ensity Distribution Laser Macro Line 640 +5/-5 nm 15 mW	
Line type Wavelength Laser output power Laser safety class Fan angle α	Laser Macro Line 640 +5/-5 nm	
Wavelength Laser output power Laser safety class Fan angle α	640 +5/-5 nm	
Laser output power Laser safety class Fan angle α		
Laser safety class Fan angle α	15 mW	
Fan angle α		
·	3B	
Focussing range	25 deg	
	780-1330 mm	
Working distance	966 mm	
Line length	425 mm	
Line width	0.614 mm	
Depth of focus	1270 mm	
Edge intensity	80 %	
Diameter laser module	25/28 mm	
Module length	86.8 mm	
Installation length	1082.8 mm	
Cable length	1.5 m	
Connector type Lumberg SV50	IEC 61076-2-106	
Supply voltage	5 ± 0.2 V	
Max. current consumption	0.25 A	
Working temperature	0 - 40 °C	
Modulation inputs Analog	TTL	
Input resistance 22 kOhm	22 kOhm	
Max. modulation frequency 100 kHz	100 kHz	
Modulation delay ON/OFF 1/0.5 μs	2/1 μs	
Rise / Fall time $3/2 \mu s$	3/2 µs	



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 distributionExtended 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



This is a printout of the page https://sukhamburg.com/products/details/13LRM25-S1000-1 5 55CM-640-15-H22-T15-C-6 from 5/5/2024

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

LEGAL NOTICE

Copyright 2020 Schäfter+Kirchhoff GmbH. All rights reserved.

Text, image, graphic, sound, video and animation files and their arrangement on Schäfter+Kirchhoff GmbH webpages are protected by copyright and other protective laws. The content may not be copied for commercial use or reproduced, modified or used on other websites. [more]