13LRM40-S500-1.5+55CM-635-7-H10-T12-C-6

Laser Macro Line Generator with a fan angle
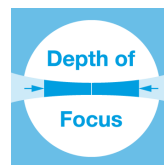
FEATURES

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

- Line length: 357 mm
- Line width: 308 µm
- Wavelength: 635 nm
- Working distance: 487 mm
- Depth of focus: 314 mm

- Macro Line Generator for extended depth of focus

Depth of Focus

DESCRIPTION

The laser diode beam source type 13LRM40-S500-1.5+55CM-635-7-H10-T12-C-6 has a fan angle of 40° 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 chain of equidistant dots 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 type C for control of the laser output power. The output power can be controlled using the 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

13LRM40-S500-1.5+55CM-635-7-H10-T12-C-6

Series		13LRM
Order Code		13LRM40-S500-1.5+55CM-635-7-H10-T12-C-6
Line profile		Constant Intensity Distribution
Line type		Laser Macro Line
Wavelength		635 +10/-10 nm
Laser output power		7 mW
Laser safety class		3B
Fan angle α		40 deg
Focussing range		355-785 mm
Working distance		487 mm
Line length		357 mm
Line width		0.308 mm
Depth of focus		314 mm
Edge intensity		80 %
Diameter laser module		25/28 mm
Module length		86.8 mm
Installation length		603.8 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 µs	3/2 µs

DOWNLOADS

[930412000124.pdf](930412000124.pdf)

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

This is a printout of the page https://sukhamburg.com/products/details/13LRM40-S500-1_5_55CM-635-7-H10-T12-C-6 from 4/24/2024

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