

13LRM40-S500-1.5+55CM-635-5-H10-T15-C-6

Laser Macro Line Generator with a fan angle

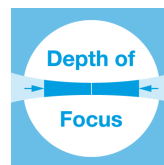


FEATURES

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

- Line length: 357 mm
- Line width: 305 μm
- Wavelength: 635 nm
- Working distance: 487 mm
- Depth of focus: 314 mm

- Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 13LRM40-S500-1.5+55CM-635-5-H10-T15-C-6 has a fan angle of 40° with a constant line width and approx. uniform intensity distribution along the laser line as well as 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-635-5-H10-T15-C-6

Series	13LRM	
Order Code	13LRM40-S500-1.5+55CM-635-5-H10-T15-C-6	
Line profile	Constant Intensity Distribution	
Line type	Laser Macro Line	
Wavelength	635 +10/-10 nm	
Laser output power	5 mW	
Laser safety class	3R	
Fan angle α	40 deg	
Focussing range	355-785 mm	
Working distance	487 mm	
Line length	357 mm	
Line width	0.305 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 μ s	2/1 μ s
Rise / Fall time	3/2 μ s	3/2 μ s

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[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

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