

13LRM25-M125-1.5+55CM-520-40-O11-T15-PS-7

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: 55 mm
Line width: 63 μm
Wavelength: 520 nm
Working distance: 111 mm
Depth of focus: 16.1 mm

- Macro Line Generator for extended depth of focus
- With RS232 interface





DESCRIPTION

The laser diode beam source type 13LRM25-M125-1.5+55CM-520-40-O11-T15-PS-7 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 <u>type PS</u> with micro-controller for control of the laser output power and serial interface (RS232). 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

13LRM25-M125-1.5+55CM-520-40-O11-T15-PS-7

Series	13LRM	
Order Code	13LRM25-M125-1.5+55CM-520-40-O11-T15-PS-7	
Line profile	Constant Intensity Distribution	
Line type	Laser Macro Line	
Wavelength	520 +10/-5 nm	
Laser output power	40 mW	
Laser safety class	3B	
Fan angle α	25 deg	
Focussing range	95-195 mm	
Working distance	111 mm	
Line length	55 mm	
Line width	0.063 mm	
Depth of focus	16.1 mm	
Edge intensity	80 %	
Diameter laser module	25/28 mm	
Module length	86.8 mm	
Installation length	227.8 mm	
Cable length	1.5 m	
Connector type	Lumberg SV70 IEC 61076-2-106	
Supply voltage	5 ± 0.2 V	
Max. current consumption	0.5 A	
Working temperature	15 - 40 °C	
Modulation inputs	Analog	TTL
Input resistance	9 kOhm	9 kOhm
Max. modulation frequency	0.001 kHz	250 kHz
Modulation delay ON/OFF	3000/3000 μs	0.6/0.2 μs
Rise / Fall time	200000/200000 μs	0.2/0.2 μs
Interface	RS232	



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

PS051007E Power Supply 5 V for laser modules with RS232

interface

RELATED PRODUCTS

LASER MODULES

• Micro Line Generator, fan angle
SERIES 13LR
• Uniform intensity distribution

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LASER MODULES

• Micro Line Generator, small fan angle
SERIES 13LNM
• Uniform intensity distribution

Extended depth of focus

LASER MODULES • Compact Micro Line, small fan angle

SERIES 5LMM+25CM • Gaussian intensity distribution

Extended depth of focus

LASER MODULES • Compact Macro Line, large fan angle

SERIES 5LPM+25CM • Gaussian intensity distribution

Extended depth of focus

LASER MODULES • Macro Line, small fan angle

SERIES 5LMM • Gaussian intensity distribution

Extended depth of focus

LASER MODULES • Macro Line, large fan angle

SERIES 5LPM • Gaussian intensity distribution

Extended depth of focus



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