13LRM40-M125-1.5+55CM-685-26-H13-T12-CS-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: 0 mm
- Line width: 82 μm
- Wavelength: 685 nm
- Working distance: 111 mm
- Depth of focus: 21.2 mm
- Macro Line Generator for extended depth of focus
- With RS232 interface



DESCRIPTION

The laser diode beam source type 13LRM40-M125-1.5+55CM-685-26-H13-T12-CS-7 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 <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 CS</u> for control of the laser output power and serial interface (RS232). The output power can be controlled using the <u>modulation input</u> <u>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

13LRM40-M125-1.5+55CM-685-26-H13-T12-CS-7

Series		13LRM
Order Code	13LRM40-M125-1.5+55CM-685-26-H13-T12-CS-7	
Line profile	Constant Intensity Distribution	
Line type	Laser Macro Line	
Wavelength	685 +10/-10 nm	
Laser output power	26 mW	
Laser safety class	3B	
Fan angle α	40 deg	
Focussing range	95-195 mm	
Working distance	111 mm	
Line length	0 mm	
Line width	0.082 mm	
Depth of focus	21.2 mm	
Edge intensity	80 %	
Diameter laser module	25/28 mm	
Module length	91.3 mm	
Installation length	232.3 mm	
Cable length	1.5 m	
Connector type	Lumberg SV70 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	9 kOhm	9 kOhm
Max. modulation frequency	0.001 kHz	250 kHz
Modulation delay ON/OFF	3000/3000 µs	0.5/0.2 μs
Rise / Fall time	200000/200000 µs	0.8/0.4 µs
Interface		RS232



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13LRM+55CM+234.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
13МК-25-36-10-М	Mounting Console with base plate with dovetail profile
PS051007E	Power Supply 5 V for laser modules with RS232 interface

RELATED PRODUCTS

LASER MODULES SERIES 13LR	Micro Line Generator, fan angleUniform 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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DATA SHEET

This is a printout of the page <u>https://sukhamburg.com/products/details/13LRM40-M125-1_5_55CM-685-26-H13-T12-CS-7</u> from 5/3/2024

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