

13LRM12-S000-1.5+55CM-450-35-O06-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: 409 mm
Line width: 867 μm
Wavelength: 450 nm
Working distance: 200

Working distance: 2000 mmDepth of focus: 3000 mm

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





DESCRIPTION

The laser diode beam source type 13LRM12-S000-1.5+55CM-450-35-O06-T15-PS-7 has a fan angle of 12° 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

13LRM12-S000-1.5+55CM-450-35-O06-T15-PS-7

Series		13LRM
Order Code	13LRM12-S000-1.5+55CM-450-35-O06-T15-PS-7	
Line profile	Constant Intensity Distribution	
Line type	Laser Macro Line	
Wavelength	450 +10/-10 nm	
Laser output power	35 mW	
Laser safety class	3В	
Fan angle α	12 deg	
Focussing range	1330-inf mm	
Working distance	2000 mm	
Line length	409 mm	
Line width	0.867 mm	
Depth of focus	3000 mm	
Edge intensity	80 %	
Diameter laser module	25/28 mm	
Module length	86.8 mm	
Installation length	2116.8 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 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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