

13LRM12-S250-1.5+55CM-640-15-H22-T15-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: 52 mm
Line width: 154 μm
Wavelength: 640 nm
Working distance: 236 mm
Depth of focus: 79.2 mm

Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 13LRM12-S250-1.5+55CM-640-15-H22-T15-C-6 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 $\underline{type\ C}$ for control of the laser output power. The output power can be controlled using the $\underline{modulation\ input\ ports\ (TTL\ and\ analog)}}$ 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

13LRM12-S250-1.5+55CM-640-15-H22-T15-C-6

Series 13LRM			
Order Code	13LRM12-S250-1.5+55CM-640-15-H22-T15-C-6		
Line profile	Constant Intensity Distribution		
Line type	Laser Macro Line		
Wavelength	640 +5/-5 nm		
Laser output power	15 mW		
Laser safety class	3В		
Fan angle α	12 deg		
Focussing range	195-355 mm		
Working distance	236 mm		
Line length	52 mm		
Line width	0.154 mm		
Depth of focus	79.2 mm		
Edge intensity	80 %		
Diameter laser module	25/28 mm		
Module length	86.8 mm		
Installation length	352.8 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



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 distributionExtended 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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