

13LRM25-S000-1.5+55CM-639-14-H18-T12-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 width: 1240 µm
Wavelength: 639 nm
Working distance: 2000 mm
Depth of focus: 3000 mm

■ Line length: 850 mm

Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 13LRM25-S000-1.5+55CM-639-14-H18-T12-C-6 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 $\underline{type\ C}$ 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

13LRM25-S000-1.5+55CM-639-14-H18-T12-C-6

Series 13LRM			
Order Code	13LRM25-S000-1.5+55CM-639-14-H18-T12-C-6		
Line profile	Constant Intensity Distribution		
Line type	Laser Macro Line		
Wavelength	639 +10/-10 nm		
Laser output power	14 mW		
Laser safety class	3В		
Fan angle α	25 deg		
Focussing range	1330-inf mm		
Working distance	2000 mm		
Line length	850 mm		
Line width	1.24 mm		
Depth of focus	3000 mm		
Edge intensity	80 %		
Diameter laser module	25/28 mm		
Module length	84.3 mm		
Installation length	2114.3 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	



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

SERIES 5LMM+25CM

SERIES 5LMM

LASER MODULES

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

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

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

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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