

13LNM40-S500-7+90CM-639-6-H18-M60-C-6

Macro Line Generator with a fan angle



FEATURES

Laser line with a fan angle, approx. uniform intensity distribution and extended depth of focus.

Line length: 150 mm
Line width: 66 μm
Wavelength: 639 nm
Working distance: 483 mm
Depth of focus: 14.5 mm

Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 13LNM40-S500-7+90CM-639-6-H18-M60-C-6 has a fan angle of 15.8° , approx. uniform intensity distribution along the laser line and extended depth of focus.

More precisely, it is Gaussian clipped by an aperture with an edge intensity of 87 %. Across the laser line the intensity distribution is 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.

For this laser type the working distance is fixed. A fine-adjustment of the distance between laser and target is recommended for fine-focusing in order to achieve minimal line width.



TECHNICAL DATA

13LNM40-S500-7+90CM-639-6-H18-M60-C-6

eries 13LNM40			
Order Code	13LNM40-S500-7+90CM-639-6-H18-M60-C-6		
Line profile	Constant Intensity Distribution		
Line type	Laser Macro Line		
Wavelength	639 +10/-10 nm		
Laser output power	6 mW		
Laser safety class	3B		
Fan angle α	15.8 deg		
Focussing range	483-483 mm		
Working distance	483 mm		
Line length	150 mm		
Line width	0.066 mm		
Depth of focus	14.5 mm		
Edge intensity	87 %		
Diameter laser module	25/28 mm		
Module length	134.4 mm		
Installation length	647.4 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

9D-12 Screwdriver WS 1.2

PS051003E Power Supply 5 V

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LASER MODULES SERIES 13LN Micro Line, small fan angleUniform intensity distribution

Thin lines

LASER MODULES SERIES LNC-13LNM Macro Line Generator, small fan angle

Uniform intensity distribution

Extended depth of focus

Low noise

LASER MODULES SERIES 13LRM Macro Line Generator, fan angleUniform 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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