

13LNM250-S250-7+90CM-640-9-H22-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: 14 mm
Line width: 33 μm
Wavelength: 640 nm
Working distance: 236.5 mm
Depth of focus: 3.64 mm

Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 13LNM250-S250-7+90CM-640-9-H22-M60-C-6 has a fan angle of 0° , 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 74 %. Across the laser line the intensity distribution is Gaussian.

The laser has integrated electronics <u>type C</u> for control of the laser output power. The output power can be controlled using the <u>modulation input ports (TTL and analog)</u> 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

13LNM250-S250-7+90CM-640-9-H22-M60-C-6

Series	13LNM250	
Order Code	13LNM250-S250-7+90CM-640-9-H22-M60-C-6	
Line profile	Constant Intensity Distribution	
Line type	Laser Macro Line	
Wavelength	640 +5/-5 nm	
Laser output power	9 mW	
Laser safety class	3B	
Focussing range	236.5-236.5 mm	
Working distance	236.5 mm	
Line length	14 mm	
Line width	0.033 mm	
Depth of focus	3.64 mm	
Edge intensity	74 %	
Diameter laser module	25/28 mm	
Module length	134.4 mm	
Installation length	400.9 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
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ACCESSORIES

9D-12 Screwdriver WS 1.2

PS051003E Power Supply 5 V

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Uniform intensity distributionExtended depth of focus

Low noise

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SERIES 13LRM

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Extended depth of focus

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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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