13LNM250-S500-7+90CR-635-3-H10-M60-C-6

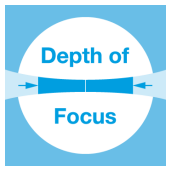
Macro Line Generator with a fan angle

FEATURES

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

- Line length: 30 mm
- Line width: 66 µm
- Wavelength: 635 nm
- Working distance: 411.5 mm
- Depth of focus: 14.4 mm

- Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 13LNM250-S500-7+90CR-635-3-H10-M60-C-6 has a fan angle of 1.7°, 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 84 %. Across the laser line the intensity distribution is Gaussian.

The laser has integrated electronics type C for control of the laser output power. The output power can be controlled using the 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

13LNM250-S500-7+90CR-635-3-H10-M60-C-6

Series	13LNM250	
Order Code	13LNM250-S500-7+90CR-635-3-H10-M60-C-6	
Line profile	Constant Intensity Distribution	
Line type	Laser Macro Line	
Wavelength	635 +10/-10 nm	
Laser output power	3 mW	
Laser safety class	3R	
Fan angle α	1.7 deg	
Focussing range	411.5-411.5 mm	
Working distance	411.5 mm	
Line length	30 mm	
Line width	0.066 mm	
Depth of focus	14.4 mm	
Edge intensity	84 %	
Diameter laser module	25/28 mm	
Module length	118.4 mm	
Installation length	529.9 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

ACCESSORIES

9D-12	Screwdriver WS 1.2

PS051003E	Power Supply 5 V

RELATED PRODUCTS

LASER MODULES SERIES 13LN	▪ Micro Line, **small** fan angle ▪ Uniform 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 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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