13LNM40-S250-7+90CM-639-6-H18-M60-C-6

Macro Line Generator with a fan angle

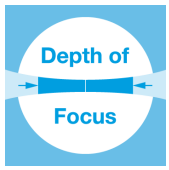


FEATURES

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

- Line length: 75 mm
- Line width: 33 µm
- Wavelength: 639 nm
- Working distance: 227 mm
- Depth of focus: 3.63 mm

- Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 13LNM40-S250-7+90CM-639-6-H18-M60-C-6 has a fan angle of 14.3°, 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 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

13LNM40-S250-7+90CM-639-6-H18-M60-C-6

Series		13LNM40
Order Code		13LNM40-S250-7+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		14.3 deg
Focussing range		227-227 mm
Working distance		227 mm
Line length		75 mm
Line width		0.033 mm
Depth of focus		3.63 mm
Edge intensity		87 %
Diameter laser module		25/28 mm
Module length		134.4 mm
Installation length		391.4 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

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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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