13LNM165-S500-7+90CM-639-6-H18-M60-CS-7

Macro Line Generator with a fan angle
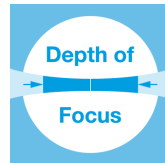
FEATURES

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

- Line length: 40 mm
- Line width: 66 µm
- Wavelength: 639 nm
- Working distance: 411.5 mm
- Depth of focus: 14.5 mm

- Macro Line Generator for extended depth of focus
- With RS232 interface

Depth of Focus

RS232

DESCRIPTION

The laser diode beam source type 13LNM165-S500-7+90CM-639-6-H18-M60-CS-7 has a fan angle of 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 CS for control of the laser output power and serial interface (RS232). 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

13LNM165-S500-7+90CM-639-6-H18-M60-CS-7

Series		13LNM165
Order Code		13LNM165-S500-7+90CM-639-6-H18-M60-CS-7
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		3 deg
Focussing range		411.5-411.5 mm
Working distance		411.5 mm
Line length		40 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		575.9 mm
Cable length		1.5 m
Connector type		Lumberg SV70 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	9 kOhm	9 kOhm
Max. modulation frequency	0.001 kHz	250 kHz
Modulation delay ON/OFF	3000/3000 µs	0.5/0.2 µs
Rise / Fall time	200000/200000 µs	0.8/0.4 µs
Interface		RS232

DOWNLOADS

[13LNM+90CM+205.pdf](13LNM+90CM+205.pdf)

ACCESSORIES

9D-12   Screwdriver WS 1.2

PS051007E   Power Supply 5 V for laser modules with RS232 interface

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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