### 13LN250-S250+90CM-640-13-H22-M60-C-6

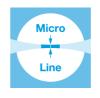
Micro Line Generator with a fan angle



### FEATURES

Laser line with a fan angle, approx. uniform intensity distribution and very thin lines.

- Line length: 14 mm
- Line width: 16 µm
- Wavelength: 640 nm
- Working distance: 249 mm
- Micro Line Generator for small laser line widths and high power density in the focal plane



## DESCRIPTION

The laser diode beam source type 13LN250-S250+90CM-640-13-H22-M60-C-6 has a fan angle of 0° and approx. uniform intensity distribution along the laser line.

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 line width is constant along 60 % of the central are, outside this area the line width differs up to 30 %.

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**

#### 13LN250-S250+90CM-640-13-H22-M60-C-6

Series	13LN250	
Order Code	13LN250-S250+90CM-640-13-H22-M60-C-6	
Line profile	Constant Intensity Distribution	
Line type	Laser Micro Line	
Wavelength	640 +5/-5 nm	
Laser output power	13 mW	
Laser safety class	3В	
Focussing range	249-249 mm	
<b>/orking distance</b> 249 mm		
ine length 14 mm		
ne width 0.016 mm		
Rayleigh range	eigh range 0.52 mm	
Edge intensity 74 %		
Diameter laser module	25/28 mm	
Module length	<b>th</b> 121.9 mm	
Installation length	400.9 mm	
Cable length	ble 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 13LNM	<ul> <li>Micro Line Generator, small fan angle</li> <li>Uniform intensity distribution</li> <li>Extended depth of focus</li> </ul>
LASER MODULES SERIES LNC-13LN	<ul> <li>Micro Line, small fan angle</li> <li>Uniform intensity distribution</li> <li>Thin lines</li> <li>Low noise</li> </ul>
LASER MODULES SERIES 13LR	<ul> <li>Micro Line Generator, fan angle</li> <li>Uniform intensity distribution</li> </ul>
LASER MODULES SERIES 5LM+25CM	<ul> <li>Compact Micro Line, small fan angle</li> <li>Gaussian intensity distribution</li> </ul>
LASER MODULES SERIES 5LP+25CM	<ul> <li>Compact Micro Line, large fan angle</li> <li>Gaussian intensity distribution</li> </ul>
LASER MODULES SERIES 5LM	<ul> <li>Micro Line, small fan angle</li> <li>Gaussian intensity distribution</li> </ul>
LASER MODULES SERIES 5LP	<ul> <li>Micro Line, large fan angle</li> <li>Gaussian intensity distribution</li> </ul>

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