

13LN250-S250+90CR-660-54-M25-M60-P-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: 17 μm
Wavelength: 660 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+90CR-660-54-M25-M60-P-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 64 %. 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 $\underline{type\ P}$ with micro-controller for control of the laser output power. The output power can be controlled using the $\underline{modulation\ input\ ports\ (TTL\ and\ analog)}$ 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

13LN250-S250+90CR-660-54-M25-M60-P-6

Series	13LN250	
Order Code	13LN250-S250+90CR-660-54-M25-M60-P-6	
Line profile	Constant Intensity Distribution	
Line type	Laser Micro Line	
Wavelength	660 +4/-6 nm	
Laser output power	54 mW	
Laser safety class	3B	
Focussing range	249-249 mm	
Working distance	249 mm	
Line length	14 mm	
Line width	0.017 mm	
Rayleigh range	0.536 mm	
Edge intensity	64 %	
Diameter laser module	25/28 mm	
Module length	105.9 mm	
Installation length	354.9 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	15 - 40 °C	
Modulation inputs	Analog	TTL
Input resistance	9 kOhm	9 kOhm
Max. modulation frequency	0.01 kHz	250 kHz
Modulation delay ON/OFF	3000/3000 μs	0.5/0.2 μs
Rise / Fall time	40000/40000 μs	0.5/0.5 μs
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ACCESSORIES

9D-12 Screwdriver WS 1.2

PS051003E Power Supply 5 V



RELATED PRODUCTS

LASER MODULES ■ Micro Line Generator, small fan angle

SERIES 13LNM • Uniform intensity distribution

Extended depth of focus

LASER MODULES

• Micro Line, small fan angle

SERIES LNC-13LN

• Uniform intensity distribution

Thin lines

Low noise

LASER MODULES

• Micro Line Generator, fan angle

• Uniform intensity distribution

LASER MODULES • Compact Micro Line, small fan angle

SERIES 5LM+25CM • Gaussian intensity distribution

LASER MODULES • Compact Micro Line, large fan angle

SERIES 5LP+25CM ■ Gaussian intensity distribution

LASER MODULES

• Micro Line, small fan angle

SERIES 5LM
• Gaussian intensity distribution

Caassian intensity distribution

LASER MODULES

■ Micro Line, large fan angle
SERIES 5LP

■ Gaussian intensity distribution

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