

13LNM40-S250-7+90CM-785-37-Q06-M60-CS-7

Macro Line Generator with a fan angle

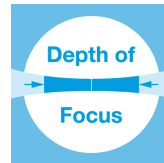


FEATURES

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

- Line length: 75 mm
- Line width: 40 μm
- Wavelength: 785 nm
- Working distance: 227 mm
- Depth of focus: 4.46 mm

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



DESCRIPTION

The laser diode beam source type 13LNM40-S250-7+90CM-785-37-Q06-M60-CS-7 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 61 %. 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

13LNM40-S250-7+90CM-785-37-Q06-M60-CS-7

Series	13LNM40	
Order Code	13LNM40-S250-7+90CM-785-37-Q06-M60-CS-7	
Line profile	Constant Intensity Distribution	
Line type	Laser Macro Line	
Wavelength	785 +10/-10 nm	
Laser output power	37 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	0.04 mm	
Depth of focus	4.46 mm	
Edge intensity	61 %	
Diameter laser module	25/28 mm	
Module length	134.4 mm	
Installation length	391.4 mm	
Cable length	1.5 m	
Connector type	Lumberg SV70 IEC 61076-2-106	
Supply voltage	5 \pm 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 μ s	0.5/0.2 μ s
Rise / Fall time	200000/200000 μ s	0.8/0.4 μ s
Interface	RS232	

DOWNLOADS



[951210000051.pdf](#)

ACCESSORIES

- | | |
|-----------|---|
| 9D-12 | Screwdriver WS 1.2 |
| PS051007E | Power Supply 5 V for laser modules with RS232 interface |

RELATED PRODUCTS

- | | |
|---|--|
| <p>LASER MODULES
SERIES 13LN</p> | <ul style="list-style-type: none"> ▪ Micro Line, small fan angle ▪ Uniform intensity distribution ▪ Thin lines |
| <p>LASER MODULES
SERIES LNC-13LNM</p> | <ul style="list-style-type: none"> ▪ Macro Line Generator, small fan angle ▪ Uniform intensity distribution ▪ Extended depth of focus ▪ Low noise |
| <p>LASER MODULES
SERIES 13LRM</p> | <ul style="list-style-type: none"> ▪ Macro Line Generator, fan angle ▪ Uniform intensity distribution ▪ Extended depth of focus |
| <p>LASER MODULES
SERIES 5LMM+25CM</p> | <ul style="list-style-type: none"> ▪ Compact Micro Line, small fan angle ▪ Gaussian intensity distribution ▪ Extended depth of focus |
| <p>LASER MODULES
SERIES 5LPM+25CM</p> | <ul style="list-style-type: none"> ▪ Compact Macro Line, large fan angle ▪ Gaussian intensity distribution ▪ Extended depth of focus |
| <p>LASER MODULES
SERIES 5LMM</p> | <ul style="list-style-type: none"> ▪ Macro Line, small fan angle ▪ Gaussian intensity distribution ▪ Extended depth of focus |
| <p>LASER MODULES
SERIES 5LPM</p> | <ul style="list-style-type: none"> ▪ Macro Line, large fan angle ▪ Gaussian intensity distribution ▪ Extended depth of focus |

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CONTACT

For more information please contact:

Schäfter + Kirchhoff GmbH

Kieler Str. 212

22525 Hamburg

Germany

Tel: +49 40 85 39 97-0

Fax: +49 40 85 39 97-79

info@sukhamburg.de

www.sukhamburg.com

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