5LP60-S50+55CM-685-37-H13-A8-C-6

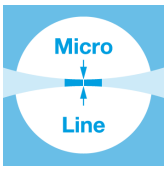
Micro Line Generator with a large fan angle

FEATURES

Laser line with a large fan angle and Gaussian intensity distribution.

- Line length: 48 mm
- Line width: 19 µm
- Wavelength: 685 nm
- Working distance: 46 mm

- Micro Line Generator for small laser line widths and high power density in the focal plane



DESCRIPTION

The laser diode beam source type 5LP60-S50+55CM-685-37-H13-A8-C-6 has a fan angle of 62°.

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 14 %. The line width is constant along the laser line. 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.

The working distance can be adjusted by adjusting the focus setting. Please note that beam parameters like line length and line width increase proportionally to the working distance. A fine-adjustment of the distance between laser and target is recommended for fine-focusing.

TECHNICAL DATA

5LP60-S50+55CM-685-37-H13-A8-C-6

Series	5LP	
Order Code	5LP60-S50+55CM-685-37-H13-A8-C-6	
Line profile	Gaussian Intensity Distribution	
Line type	Laser Micro Line	
Wavelength	685 +10/-10 nm	
Laser output power	37 mW	
Laser safety class	3B	
Fan angle α	62 deg	
Focussing range	35-70 mm	
Working distance	46 mm	
Line length	48 mm	
Line width	0.019 mm	
Rayleigh range	0.865 mm	
Edge intensity	14 %	
Diameter laser module	25/28 mm	
Module length	86.1 mm	
Installation length	162.1 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

ACCESSORIES

50HD-15	Hex key WS 1.5

9D-12	Screwdriver WS 1.2
13MK-25-36-10-F	Mounting Console with flat base plate
13MK-25-36-10-M	Mounting Console with base plate with dovetail profile
PS051003E	Power Supply 5 V

RELATED PRODUCTS

LASER MODULES SERIES 5LPM	▪ Macro Line, **large** fan angle ▪ Gaussian intensity distribution ▪ Extended depth of focus
LASER MODULES SERIES LNC-5LP	▪ Micro Line, **large** fan angle ▪ Gaussian intensity distribution ▪ Low noise
LASER MODULES SERIES 13LR	▪ Micro Line Generator, fan angle ▪ Uniform intensity distribution
LASER MODULES SERIES 13LN	▪ Micro Line, **small** fan angle ▪ Uniform intensity distribution ▪ Thin lines
LASER MODULES SERIES 5LM+25CM	▪ **Compact** Micro Line, **small** fan angle ▪ Gaussian intensity distribution
LASER MODULES SERIES 5LP+25CM	▪ **Compact** Micro Line, **large** fan angle ▪ Gaussian intensity distribution
LASER MODULES SERIES 5LM	▪ Micro Line, **small** fan angle ▪ Gaussian intensity distribution

This is a printout of the page https://sukhamburg.com/products/details/5LP60-S50_55CM-685-37-H13-A8-C-6 from 4/25/2024

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

LEGAL NOTICE