

5LP80-S50+25CM-405-13-Y07-A7.5-B-4

Compact Micro Line Generator with a large fan angle



FEATURES

Compact laser line with a large fan angle and Gaussian intensity distribution.

Line length: 72 mm
Line width: 14 μm
Wavelength: 405 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 5LP80-S50+25CM-405-13-Y07-A7.5-B-4 has a fan angle of 84°.

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 9 %. The line width is constant along the laser line. Across the laser line the intensity distribution is Gaussian.

The laser has integrated electronics $\underline{type\ B}$ for control of the laser output power. The output power can be controlled using the $\underline{modulation\ input\ port\ (TTL)}$ 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

5LP80-S50+25CM-405-13-Y07-A7.5-B-4

Series	5LP
Order Code	5LP80-S50+25CM-405-13-Y07-A7.5-B-4
Line profile	Gaussian Intensity Distribution
Line type	Laser Micro Line
Wavelength	405 +5/-5 nm
Laser output power	13 mW
Laser safety class	3В
Fan angle α	84 deg
Focussing range	35-70 mm
Working distance	46 mm
Line length	72 mm
Line width	0.014 mm
Rayleigh range	0.726 mm
Edge intensity	9 %
Diameter laser module	12 mm
Module length	73.7 mm
Installation length	149.7 mm
Cable length	1.5 m
Connector type	Lumberg SV40 IEC 61076-2-106
Supply voltage	12 ± 0.5 V
Max. current consumption	0.16 A
Working temperature	0 - 40 °C
Modulation inputs	TTL
Input resistance	110 kOhm
Max. modulation frequency	0.2 kHz
Modulation delay ON/OFF	500/500 μs
Rise / Fall time	10/20 μs

ACCESSORIES

60EX-4

Eccentric key with a stroke of \pm 0.5 mm.



60EX-4-L Alternative eccentric key with long handle with a

stroke of ± 0.5 mm.

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

PS120516E Power Supply 12 V

RELATED PRODUCTS

LASER MODULES ■ Compact Macro Line, large fan angle

SERIES 5LPM+25CM Gaussian intensity distribution

Extended depth of focus

LASER MODULES ■ Micro Line, large fan angle **SERIES LNC-5LP**

Gaussian intensity distribution

Low noise

LASER MODULES Micro Line Generator, fan angle

SERIES 13LR Uniform intensity distribution

LASER MODULES • Micro Line, small fan angle **SERIES 13LN**

Uniform intensity distribution

Thin lines

LASER MODULES Compact Micro Line, small fan angle

Gaussian intensity distribution **SERIES 5LM+25CM**

LASER MODULES Micro Line, large fan angle

Gaussian intensity distribution **SERIES 5LP**

LASER MODULES Micro Line, small fan angle

Gaussian intensity distribution **SERIES 5LM**



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