5LP40-S325+55CM-405-82-X15-A7.5-P-6

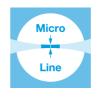
Micro Line Generator with a large fan angle



FEATURES

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

- Line length: 228 mm
- Line width: 84 μm
- Wavelength: 405 nm
- Working distance: 317 mm
- Micro Line Generator for small laser line widths and high power density in the focal plane



DESCRIPTION

The laser diode beam source type 5LP40-S325+55CM-405-82-X15-A7.5-P-6 has a fan angle of 40° .

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 10 %. The line width is constant along the laser line. Across the laser line the intensity distribution is Gaussian.

The laser has integrated electronics <u>type P</u> with micro-controller 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.

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

5LP40-S325+55CM-405-82-X15-A7.5-P-6

Series		5LP
Order Code	5LP40-S325+55CM-405-82-X15-A7.5-P-6	
Line profile	Gaussian Intensity Distribution	
Line type	Laser Micro Line	
Wavelength	405 +5/-5 nm	
Laser output power	82 mW	
Laser safety class	3В	
Fan angle α	40 deg	
Focussing range	260-430 mm	
Vorking distance 317 mm		
Line length	228 mm	
Line width	0.084 mm	
Rayleigh range	27.4 mm	
Edge intensity 10 %		
Diameter laser module	25/28 mm	
Module length	ength 90.1 mm	
Installation length	437.1 mm	
Cable length 1.5 m		
Connector type	Lumberg SV50 IEC 61076-2-106	
Supply voltage	5 ± 0.2 V	
Max. current consumption	0.5A	
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

ACCESSORIES

50HD-15

Hex key WS 1.5



DATA SHEET

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

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LASER MODULES Macro Line, large fan angle SERIES 5LPM 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 SERIES 5LM+25CM Gaussian intensity distribution Compact Micro Line, large fan angle LASER MODULES SERIES 5LP+25CM Gaussian intensity distribution LASER MODULES Micro Line, small fan angle SERIES 5LM Gaussian intensity distribution



DATA SHEET

This is a printout of the page <u>https://sukhamburg.com/products/details/5LP40-S325_55CM-405-82-X15-A7_5-P-6</u> from 4/25/2024

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