#### 5LP80-S88+55CM-405-13-Y07-A7.5-C-6

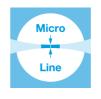
Micro Line Generator with a large fan angle



#### FEATURES

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

- Line length: 140 mm
- Line width: 24 μm
- Wavelength: 405 nm
- Working distance: 82 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-S88+55CM-405-13-Y07-A7.5-C-6 has a fan angle of  $84^{\circ}$ .

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 <u>type C</u> 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**

5LP80-S88+55CM-405-13-Y07-A7.5-C-6

Series		5LP
Order Code	5LP80-S88+55CM-405-13-Y07-A7.5-C-6	
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	70-125 mm	
Working distance82 mm		
Line length	140 mm	
Line width	0.024 mm	
Rayleigh range	2.25 mm	
Edge intensity	9 %	
Diameter laser module	25/28 mm	
Module length	86.1 mm	
Installation length	198.1 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	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



## **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/5LP80-S88\_55CM-405-13-Y07-A7\_5-C-6</u> from 4/26/2024

## 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

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