

5LP80-S88+55CM-520-53-O11-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: 140 mm
Line width: 42 μm
Wavelength: 520 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-520-53-O11-A7.5-P-6 has a fan angle of 84°.

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 18 %. 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

5LP80-S88+55CM-520-53-O11-A7.5-P-6

Laser safety class Fan angle α Focussing range 70-1 Working distance Line length 1 Line width 0.00	ibution ro Line
Line type Laser Mice Wavelength 520 +10 Laser output power 9 Laser safety class 9 Fan angle α 70-1 Working range 70-1 Working distance 1 Line length 1 Line width 0.0	ro Line 0/-5 nm 53 mW 3B 84 deg 25 mm 82 mm
Wavelength 520 ±10 Laser output power 9 Laser safety class 9 Fan angle α 70-1 Working range 70-1 Working distance 1 Line length 1 Line width 0.00	0/-5 nm 53 mW 3B 84 deg 25 mm 82 mm
Laser output power Laser safety class Fan angle α Focussing range 70-1 Working distance Line length 1. Line width	53 mW 3B 84 deg 25 mm 82 mm
Laser safety class Fan angle α Focussing range 70-1 Working distance Line length 1 Line width 0.00	3B 84 deg 25 mm 82 mm
Fan angle α Focussing range 70-1 Working distance Line length 1 Line width 0.00	84 deg 25 mm 82 mm
Focussing range 70-1 Working distance Line length 1- Line width 0.00	25 mm 82 mm
Working distance Line length 1. Line width 0.00	82 mm
Line length 1. Line width 0.0	
Line width 0.0	40 mm
Rayleigh range 5.	42 mm
	41 mm
Edge intensity	18 %
Diameter laser module 25/	'28 mm
Module length 86	6.1 mm
Installation length 198	3.1 mm
Cable length	1.5 m
Connector type Lumberg SV50 IEC 61076	-2-106
Supply voltage 5 :	± 0.2 V
Max. current consumption	0.5 A
Working temperature 15	- 40 °C
Modulation inputs Analog	TTL
Input resistance 9 kOhm 9	kOhm
Max. modulation frequency0.01 kHz25	50 kHz
Modulation delay ON/OFF3000/3000 μs0.5	/0.2 μs
Rise / Fall time 40000/40000 μs 0.5.	

ACCESSORIES

50HD-15

Hex key WS 1.5



Screwdriver WS 1.2 9D-12

13MK-25-36-10-F Mounting Console with flat base plate

Mounting Console with base plate with dovetail 13MK-25-36-10-M

profile

PS051003E Power Supply 5 V

RELATED PRODUCTS

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

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

Uniform intensity distribution

Thin lines

LASER MODULES Compact Micro Line, small fan angle

SERIES 5LM+25CM Gaussian intensity distribution

LASER MODULES Compact Micro Line, large fan angle

SERIES 5LP+25CM Gaussian intensity distribution

LASER MODULES ■ Micro Line, small fan angle

SERIES 5LM Gaussian intensity distribution



This is a printout of the page https://sukhamburg.com/products/details/5LP80-S88_55CM-520-53-O11-A7_5-P-6 from 5/2/2024

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

Copyright 2020 Schäfter+Kirchhoff GmbH. All rights reserved.

Text, image, graphic, sound, video and animation files and their arrangement on Schäfter+Kirchhoff GmbH webpages are protected by copyright and other protective laws. The content may not be copied for commercial use or reproduced, modified or used on other websites. [more]