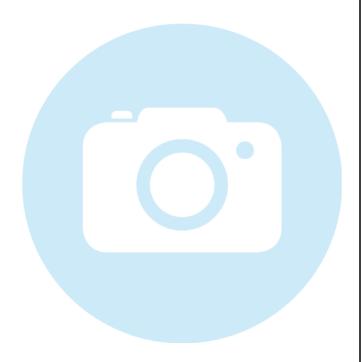


5LPM80-S150-1+55CM-405-60-X15-A7.5-PS-7

Macro Line Generator with a large fan angle



FEATURES

Laser line with a large fan angle, Gaussian intensity distribution and extended depth of focus.

Line length: 250 mm
Line width: 88 μm
Wavelength: 405 nm
Working distance: 142 mm
Depth of focus: 40.6 mm

- Macro Line Generator for extended depth of focus
- With RS232 interface





DESCRIPTION

The laser diode beam source type 5LPM80-S150-1+55CM-405-60-X15-A7.5-PS-7 has a fan angle of 84° and an extended depth of focus.

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 approx. Gaussian.

The laser has integrated electronics <u>type PS</u> with micro-controller for control of the laser output power and serial interface (RS232). 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

5LPM80-S150-1+55CM-405-60-X15-A7.5-PS-7

eries 5LPM		
Order Code	5LPM80-S150-1+55CM-405-60-X15-A7.5-PS-7	
Line profile	Gaussian Intensity Distribution	
Line type	Laser Macro Line	
Wavelength	405 +5/-5 nm	
Laser output power	60 mW	
Laser safety class	3В	
Fan angle α	84 deg	
Focussing range	120-255 mm	
Working distance	142 mm	
Line length	250 mm	
Line width	0.088 mm	
Depth of focus	40.6 mm	
Edge intensity	10 %	
Diameter laser module	25/28 mm	
Module length	91.5 mm	
Installation length	263.5 mm	
Cable length	1.5 m	
Connector type	Lumberg SV70 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 frequency	0.001 kHz	250 kHz
Modulation delay ON/OFF	3000/3000 μs	0.6/0.2 μs
Rise / Fall time	200000/200000 μs	0.2/0.2 μs



Interface RS232

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

PS051007E Power Supply 5 V for laser modules with RS232

interface

RELATED PRODUCTS

LASER MODULES SERIES 5LPM

- Macro Line, large fan angle
- Gaussian intensity distribution
- Extended depth of focus

LASER MODULES SERIES LNC-5LPM

- Macro Line, large fan angle
- Gaussian intensity distribution
- Extended depth of focus
- Low noise

LASER MODULES SERIES 13LRM

- Macro Line Generator, fan angle
- Uniform intensity distribution
- Extended depth of focus

LASER MODULES
SERIES 13LNM

- Micro Line Generator, small fan angle
- Uniform intensity distribution
- Extended depth of focus

LASER MODULES SERIES 5LMM+25CM

- Compact Micro Line, small fan angle
- Gaussian intensity distribution
- Extended depth of focus

LASER MODULES SERIES 5LPM+25CM

- Compact Macro Line, large fan angle
- Gaussian intensity distribution
- Extended depth of focus



This is a printout of the page https://sukhamburg.com/products/details/5LPM80-S150-1_55CM-405-60-X15-A7_5-PS-7 from 4/19/2024

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