

5LP40-S150+55CM-520-53-O11-A7.5-PS-7

Micro Line Generator with a large fan angle



FEATURES

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

Line length: 101 mm
Line width: 72 μm
Wavelength: 520 nm
Working distance: 147 mm

- Micro Line Generator for small laser line widths and high power density in the focal plane
- With RS232 interface





DESCRIPTION

The laser diode beam source type 5LP40-S150+55CM-520-53-O11-A7.5-PS-7 has a fan angle of 40°.

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 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

5LP40-S150+55CM-520-53-O11-A7.5-PS-7

Order Code5LP40-S150+55CM-520-53-O11-A7Line profileGaussian Intensity DistLine typeLaser MinWavelength520 +1Laser output powerLaser safety classFan angle α125-Working distanceLine lengthLine width0.Rayleigh range1
Line typeLaser MidWavelength520 +1Laser output power125-1Laser safety class125-1Focussing range125-1Working distance1Line length0.0Rayleigh range1
Wavelength 520 +1 Laser output power Laser safety class Fan angle α Focussing range 125- Working distance Line length Line width 0.0 Rayleigh range 1
Laser output power Laser safety class Fan angle α Focussing range 125- Working distance Line length Line width 0. Rayleigh range 1
Laser safety class Fan angle α Focussing range 125- Working distance Line length Line width 0. Rayleigh range 1
Fan angle α Focussing range 125- Working distance Line length Line width 0.0 Rayleigh range 1
Focussing range 125- Working distance Line length Line width 0. Rayleigh range 1
Working distance Line length Line width 0.0 Rayleigh range 1
Line length Line width 0.0 Rayleigh range
Line width 0.8 Rayleigh range 1
Rayleigh range 1
Edge intensity
Edge intensity
Diameter laser module 25
Module length 9
Installation length 26
Cable length
Connector type Lumberg SV70 IEC 6107
Supply voltage 5
Max. current consumption
Working temperature 15
Modulation inputs Analog
Input resistance 9 kOhm
Max. modulation frequency 0.001 kHz
Modulation delay ON/OFF3000/3000 μs0.
Rise / Fall time 200000/200000 μs 0.
Interface

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 angleGaussian intensity distribution

Extended depth of focus

LASER MODULES
SERIES LNC-5LP

Micro Line, large fan angleGaussian intensity distribution

Low noise

LASER MODULES SERIES 13LR Micro Line Generator, fan angleUniform intensity distribution

LASER MODULES SERIES 13LN Micro Line, small fan angleUniform intensity distribution

Thin lines

LASER MODULES SERIES 5LM+25CM ■ Compact Micro Line, small fan angle

Gaussian intensity distribution

LASER MODULES
SERIES 5LP+25CM

■ Compact Micro Line, large fan angle

Gaussian intensity distribution

LASER MODULES SERIES 5LM Micro Line, small fan angle

Gaussian intensity distribution



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