

5LP60-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: 168 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 5LP60-S150+55CM-520-53-O11-A7.5-PS-7 has a fan angle of 62°.

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

5LP60-S150+55CM-520-53-O11-A7.5-PS-7

| Order Code 5LP60-S150+55CM-520-53-O11-A7.5-PS-7 Line profile Gaussian Intensity Distribution Wavelength 520 ± 10/-5 nm Laser output power 53 mW Laser safety class 3B Fan angle α 62 deg Focussing range 125-260 mm Working distance 147 mm Line length 168 mm Line width 0.072 mm Rayleigh range 15.7 mm Edge intensity 18 % Diameter laser module 25/28 mm Module length 86.1 mm Installation length 263.1 mm Cable length 1.5 m Connector type Lumberg SV70 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 0.001 kHz 250 kHz Modulation delay ON/OFF 3000/3000 μs 0.6/0.2 μs | Series | | 5LP | |
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| 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 | Max. current consumption | | 0.5 A | |
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| Modulation delay ON/OFF 3000/3000 μs 0.6/0.2 μs Rise / Fall time 200000/200000 μs 0.2/0.2 μs | Input resistance | 9 kOhm | 9 kOhm | |
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| <u> </u> | Modulation delay ON/OFF | 3000/3000 μs | 0.6/0.2 μs | |
| Interface RS232 | 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 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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