5LP60-S150+55CM-405-13-Y07-A7.5-C-6

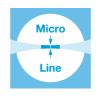
Micro Line Generator with a large fan angle



FEATURES

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

- Line length: 168 mm
- Line width: 41 µm
- Wavelength: 405 nm
- Working distance: 147 mm
- Micro Line Generator for small laser line widths and high power density in the focal plane



DESCRIPTION

The laser diode beam source type 5LP60-S150+55CM-405-13-Y07-A7.5-C-6 has a fan angle of 62° .

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

5LP60-S150+55CM-405-13-Y07-A7.5-C-6

| Series | | 5LP |
|---------------------------|-------------------------------------|---------|
| Order Code | 5LP60-S150+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 | 62 deg | |
| Focussing range | 125-260 mm | |
| Working distance | rking distance 147 mm | |
| Line length | 168 mm | |
| Line width | 0.041 mm | |
| Rayleigh range | 6.53 mm | |
| Edge intensity | 9 % | |
| Diameter laser module | 25/28 mm | |
| Module length | 86.1 mm | |
| Installation length | 263.1 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 | 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

LASER MODULES SERIES 5LPM

LASER MODULES SERIES LNC-5LP

LASER MODULES SERIES 13LR

LASER MODULES SERIES 13LN

LASER MODULES SERIES 5LM+25CM

LASER MODULES SERIES 5LP+25CM

LASER MODULES SERIES 5LM

| | Gaussian intensity distribution Extended depth of focus |
|---|--|
| - | Micro Line, large fan angle Gaussian intensity distribution Low noise |
| | Micro Line Generator, fan angle Uniform intensity distribution |
| • | Micro Line, small fan angle Uniform intensity distribution Thin lines |
| | Compact Micro Line, small fan angle Gaussian intensity distribution |
| | Compact Micro Line, large fan angle Gaussian intensity distribution |
| | Micro Line, small fan angle Gaussian intensity distribution |
| | |

Macro Line, large fan angle



DATA SHEET

This is a printout of the page <u>https://sukhamburg.com/products/details/5LP60-S150_55CM-405-13-Y07-A7_5-C-6</u> from 5/6/2024

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