

### 5LP60-S325+55CM-685-37-H13-A8-C-6

Micro Line Generator with a large fan angle



#### **FEATURES**

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

Line length: 375 mm
Line width: 126 μm
Wavelength: 685 nm
Working distance: 317 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-S325+55CM-685-37-H13-A8-C-6 has a fan angle of  $62^{\circ}$ .

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 14 %. The line width is constant along the laser line. Across the laser line the intensity distribution is Gaussian.

The laser has integrated electronics  $\underline{type\ C}$  for control of the laser output power. The output power can be controlled using the  $\underline{modulation\ input\ ports\ (TTL\ and\ analog)}$  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-S325+55CM-685-37-H13-A8-C-6

Line profile       Gaussian Intensity Distribution         Line type       Laser Micro Line         Wavelength       685 ± 10/-10 nm         Laser output power       37 mW         Laser safety class       3B         Fan angle α       62 deg         Focussing range       260-430 mm         Working distance       317 mm         Line length       375 mm         Line width       0.126 mm         Rayleigh range       36.5 mm         Edge intensity       14 %         Diameter laser module       25/28 mm         Module length       86.1 mm         Installation length       433.1 mm         Cable length       1.5 m         Connector type       Lumberg SV50 IEC 61076-2-106         Supply voltage       5 ± 0.2 V         Max. current consumption       0.25 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	Series		5LP	
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Modulation delay ON/OFF 1/0.5 μs 2/1 μs	Input resistance	22 kOhm	22 kOhm	
	Max. modulation frequency	100 kHz	100 kHz	
Disc / Fall time	Modulation delay ON/OFF	1/0.5 µs	2/1 μs	
<b>RISE / Fall time</b> 3/2 μs 3/2 μs	Rise / Fall time	3/2 μs	3/2 µs	

## **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

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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



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