

5LP80-S000+25CM-785-85-Q06-A8-S-6

Compact Micro Line Generator with a large fan angle



FEATURES

Compact laser line with a large fan angle and Gaussian intensity distribution.

Line length: 1800 mm
Line width: 470 μm
Wavelength: 785 nm
Working distance: 1000 mm

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



DESCRIPTION

The laser diode beam source type 5LP80-S000+25CM-785-85-Q06-A8-S-6 has a fan angle of 84°.

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 3 %. 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 S</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

5LP80-S000+25CM-785-85-Q06-A8-S-6

Series		5LP	
Order Code	5LP80-S000+25CM-785-85-Q06-A8-S-6		
Line profile	Gaussian Intensity Distribution		
Line type	Laser Micro Line		
Wavelength	785 +10/-10 nm		
Laser output power	85 mW		
Laser safety class	3В		
Fan angle α	84 deg		
Focussing range	430-inf mm		
Working distance	1000 mm		
Line length	1800 mm		
Line width	0.47 mm		
Rayleigh range	441 mm		
Edge intensity	3%		
Diameter laser module	12 mm		
Module length	73.7 mm		
Installation length	1103.7 mm		
Cable length	1.5 m		
Connector type	Lumberg SV50 IEC 61076-2-106		
Supply voltage	5 ± 0.25 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	50 kHz	1000 kHz	
Modulation delay ON/OFF	4/0.5 μs	0.05/0.05 μs	
Rise / Fall time	5/4 μs	0.1/0.02 μs	
			

ACCESSORIES

60EX-4

Eccentric key with a stroke of \pm 0.5 mm.



60EX-4-L Alternative eccentric key with long handle with a

stroke of ± 0.5 mm.

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 ■ Compact Macro Line, large fan angle

SERIES 5LPM+25CM 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

LASER MODULES • Micro Line, small fan angle **SERIES 13LN**

Uniform intensity distribution

Thin lines

LASER MODULES Compact Micro Line, small fan angle

Gaussian intensity distribution **SERIES 5LM+25CM**

LASER MODULES Micro Line, large fan angle

Gaussian intensity distribution **SERIES 5LP**

LASER MODULES Micro Line, small fan angle

Gaussian intensity distribution **SERIES 5LM**



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