

5LP80-S88+55CM-785-85-Q06-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: 140 mm
Line width: 41 μm
Wavelength: 785 nm
Working distance: 82 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-S88+55CM-785-85-Q06-A8-C-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 $\underline{type\ C}$ 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

5LP80-S88+55CM-785-85-Q06-A8-C-6

Laser safety class Fan angle α Focussing range Working distance Line length Line width Capable 14 Line width Rayleigh range 3.4 Edge intensity Diameter laser module Module length 86.	Line 0 nm 6 mW 3B
Line typeLaser MicroWavelength785 +10/-3Laser output power8Laser safety class8Fan angle α8Focussing range70-12Working distance8Line length14Line width0.04Rayleigh range3.4Edge intensity25/2Module length86.	Line 0 nm 5 mW 3B 4 deg 5 mm 2 mm
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Rayleigh range 3.4 Edge intensity Diameter laser module 25/2 Module length 86.	
Edge intensity Diameter laser module 25/2 Module length 86.	L mm
Diameter laser module 25/2 Module length 86.	2 mm
Module length 86.	3 %
·	3 mm
In stellation length	L mm
Installation length 198.	L mm
Cable length	L.5 m
Connector type Lumberg SV50 IEC 61076-	-106
Supply voltage 5 ±	0.2 V
Max. current consumption	.25 A
Working temperature 0 -	10 °C
Modulation inputs Analog	TTL
Input resistance 22 kOhm 22 l	Ohm
Max. modulation frequency100 kHz10) kHz
Modulation delay ON/OFF 1/0.5 μs	
Rise / Fall time 3/2 μs	/1 µs

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

PS051003E Power Supply 5 V

RELATED PRODUCTS

LASER MODULES

• Macro Line, large fan angle

• Gaussian intensity distribution

Gaussian intensity distributionExtended 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

• 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

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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