

5LM15-S50+25CM-785-90-Q06-A8-S-6

Compact Micro Line Generator with a fan angle



FEATURES

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

Line length: 11.9 mm
Line width: 23 μm
Wavelength: 785 nm
Working distance: 42 mm

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



DESCRIPTION

The laser diode beam source type 5LM15-S50+25CM-785-90-Q06-A8-S-6 has a fan angle of 15°.

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

5LM15-S50+25CM-785-90-Q06-A8-S-6

Series		5LM
Order Code	5LM15-S50+25CM-785-90-Q06-A8-S-6	
Line profile	Gaussian Intensity Distribution	
Line type	Laser Micro Line	
Wavelength	785 +10/-10 nm	
Laser output power	90 mW	
Laser safety class	3В	
Fan angle α	15 deg	
Focussing range	30-65 mm	
Working distance	42 mm	
Line length	11.9 mm	
Line width	0.023 mm	
Rayleigh range	1.1 mm	
Edge intensity	3%	
Diameter laser module	12 mm	
Module length	64.9 mm	
Installation length	136.9 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



DOWNLOADS



ACCESSORIES

60EX-4 Eccentric key with a stroke of ± 0.5 mm.

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

stroke of ± 0.5 mm.

Screwdriver WS 1.2 9D-12

PS051003E Power Supply 5 V

RELATED PRODUCTS

LASER MODULES ■ Compact Micro Line, small fan angle

SERIES 5LMM+25CM Gaussian intensity distribution

Extended depth of focus

LASER MODULES Micro Line, small fan angle **SERIES LNC-5LM** 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, large fan angle

SERIES 5LP+25CM Gaussian intensity distribution

• Micro Line, small fan angle LASER MODULES

SERIES 5LM Gaussian intensity distribution

LASER MODULES • Micro Line, large fan angle

SERIES 5LP Gaussian intensity distribution



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CONTACT

For more information please contact: Schäfter + Kirchhoff GmbH Kieler Str. 212 22525 Hamburg Germany

Tel: +49 40 85 39 97-0 Fax: +49 40 85 39 97-79

info@sukhamburg.de www.sukhamburg.com

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