

## 5LM8-S88+55CM-639-17-H18-A8-C-6

Micro Line Generator with a fan angle



#### **FEATURES**

Laser line with a fan angle and Gaussian intensity distribution.

Line length: 12 mm
Line width: 38 μm
Wavelength: 639 nm
Working distance: 78 mm

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



#### DESCRIPTION

The laser diode beam source type 5LM8-S88+55CM-639-17-H18-A8-C-6 has a fan angle of 8°.

The intensity profile is Gaussian in line direction clipped by an aperture with an edge intensity of 44 %. 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**

5LM8-S88+55CM-639-17-H18-A8-C-6

	5LM
5LM8-S88+55CM-639-17-H18-A8-C-6	
Gaussian Intensity Distribution	
Laser Micro Line	
639 +10/-10 nm	
17 mW	
safety class 3B	
Fan angle $\alpha$ 8 deg	
Focussing range 65-120 mm	
Working distance 78 mm	
12 mm	
0.038 mm	
ayleigh range 3.52 mm	
dge intensity 44 %	
25/28 mm	
ule length 77.3 mm	
nstallation length 185.3 mm	
	1.5 m
Lumberg SV50 IEC 61076-2-106	
	5 ± 0.2 V
0.25 A	
0 - 40 °C	
Analog	TTL
22 kOhm	22 kOhm
100 kHz	100 kHz
1/0.5 μs	2/1 μs
3/2 μs	3/2 μs
	Gaussian Inte  Lumberg SV50 I  Analog  22 kOhm  100 kHz  1/0.5 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

Mounting Console with base plate with dovetail 13MK-25-36-10-M

profile

PS051003E Power Supply 5 V

# **RELATED PRODUCTS**

LASER MODULES ■ Macro Line, small fan angle **SERIES 5LMM** 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

LASER MODULES ■ Compact Micro Line, small fan angle

SERIES 5LM+25CM Gaussian intensity distribution

LASER MODULES Micro Line, large fan angle

**SERIES 5LP** Gaussian intensity distribution



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