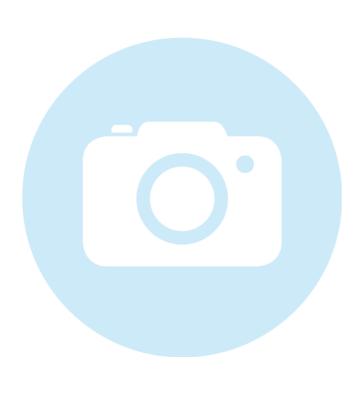
5LMM15-S325-1+55CM-685-24-H13-A8-CS-7

Macro Line Generator with a fan angle



FEATURES

Laser line with a fan angle, Gaussian intensity distribution and extended depth of focus.

- Line length: 86.9 mm
- Line width: 322 µm
- Wavelength: 685 nm
- Working distance: 308 mm
- Depth of focus: 322 mm
- Macro Line Generator for extended depth of focus
- With RS232 interface



DESCRIPTION

The laser diode beam source type 5LMM15-S325-1+55CM-685-24-H13-A8-CS-7 has a fan angle of 15° and an extended depth of focus.

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 approx. Gaussian.

The laser has integrated electronics <u>type CS</u> for control of the laser output power and serial interface (RS232). The output power can be controlled using the <u>modulation input</u> <u>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

5LMM15-S325-1+55CM-685-24-H13-A8-CS-7

Series		5LMM
Order Code	5LMM15-S325-1+55CM-685-2	24-H13-A8-CS-7
Line profile	Gaussian Inter	nsity Distribution
Line type	Li	aser Macro Line
Wavelength		685 +10/-10 nm
Laser output power		24 mW
Laser safety class		3B
Fan angle α		15 deg
Focussing range		250-450 mm
Working distance		308 mm
Line length		86.9 mm
Line width		0.322 mm
Depth of focus	322 mm	
Edge intensity	14 %	
Diameter laser module	25/28 mm	
Module length		78.5 mm
Installation length		416.5 mm
Cable length		1.5 m
Connector type	Lumberg SV70 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	9 kOhm	9 kOhm
Max. modulation frequency	0.001 kHz	250 kHz
Modulation delay ON/OFF	3000/3000 μs	0.5/0.2 μs
Rise / Fall time	200000/200000 µs	0.8/0.4 µs



Interface

RS232

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
PS051007E	Power Supply 5 V for laser modules with RS232 interface

RELATED PRODUCTS

LASER MODULES SERIES 5LM	 Micro Line, small fan angle Gaussian intensity distribution
LASER MODULES SERIES LNC-5LMM	 Macro Line, small fan angle Gaussian intensity distribution Extended depth of focus Low Noise
LASER MODULES SERIES 13LRM	 Macro Line Generator, fan angle Uniform intensity distribution Extended depth of focus
LASER MODULES SERIES 13LNM	 Micro Line Generator, small fan angle Uniform intensity distribution Extended depth of focus
LASER MODULES SERIES 5LPM+25CM	 Compact Macro Line, large fan angle Gaussian intensity distribution Extended depth of focus
LASER MODULES SERIES 5LMM+25CM	 Compact Micro Line, small fan angle Gaussian intensity distribution Extended depth of focus





LASER MODULES SERIES 5LPM

- Macro Line, large fan angle
- Gaussian intensity distribution
 - Extended depth of focus

This is a printout of the page <u>https://sukhamburg.com/products/details/5LMM15-S325-1_55CM-685-24-H13-A8-CS-7</u> from 4/23/2024

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