

5LMM15-S150-1+55CM-405-10-Y07-A7.5-C-6

Macro Line Generator with a fan angle

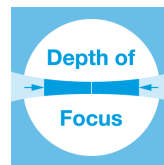


FEATURES

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

- Line length: 39.7 mm
- Line width: 88 μm
- Wavelength: 405 nm
- Working distance: 138 mm
- Depth of focus: 40.6 mm

-
- Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 5LMM15-S150-1+55CM-405-10-Y07-A7.5-C-6 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 9 %. The line width is constant along the laser line. Across the laser line the intensity distribution is approx. Gaussian.

The laser has integrated electronics [type C](#) for control of the laser output power. The output power can be controlled using the [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

5LMM15-S150-1+55CM-405-10-Y07-A7.5-C-6

Series	5LMM	
Order Code	5LMM15-S150-1+55CM-405-10-Y07-A7.5-C-6	
Line profile	Gaussian Intensity Distribution	
Line type	Laser Macro Line	
Wavelength	405 +5/-5 nm	
Laser output power	10 mW	
Laser safety class	3B	
Fan angle α	15 deg	
Focussing range	115-250 mm	
Working distance	138 mm	
Line length	39.7 mm	
Line width	0.088 mm	
Depth of focus	40.6 mm	
Edge intensity	9 %	
Diameter laser module	25/28 mm	
Module length	78.5 mm	
Installation length	246.5 mm	
Cable length	1.5 m	
Connector type	Lumberg SV50 IEC 61076-2-106	
Supply voltage	5 \pm 0.2 V	
Max. current consumption	0.5 A	
Working temperature	0 - 40 °C	
Modulation inputs	Analog	TTL
Input resistance	22 kOhm	22 kOhm
Max. modulation frequency	100 kHz	100 kHz
Modulation delay ON/OFF	1/0.5 μ s	2/1 μ s
Rise / Fall time	3/2 μ s	3/2 μ s

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 SERIES 5LM	<ul style="list-style-type: none">▪ Micro Line, small fan angle▪ Gaussian intensity distribution
LASER MODULES SERIES LNC-5LMM	<ul style="list-style-type: none">▪ Macro Line, small fan angle▪ Gaussian intensity distribution▪ Extended depth of focus▪ Low Noise
LASER MODULES SERIES 13LRM	<ul style="list-style-type: none">▪ Macro Line Generator, fan angle▪ Uniform intensity distribution▪ Extended depth of focus
LASER MODULES SERIES 13LNM	<ul style="list-style-type: none">▪ Micro Line Generator, small fan angle▪ Uniform intensity distribution▪ Extended depth of focus
LASER MODULES SERIES 5LPM+25CM	<ul style="list-style-type: none">▪ Compact Macro Line, large fan angle▪ Gaussian intensity distribution▪ Extended depth of focus
LASER MODULES SERIES 5LMM+25CM	<ul style="list-style-type: none">▪ Compact Micro Line, small fan angle▪ Gaussian intensity distribution▪ Extended depth of focus
LASER MODULES SERIES 5LPM	<ul style="list-style-type: none">▪ Macro Line, large fan angle▪ Gaussian intensity distribution▪ Extended depth of focus

This is a printout of the page https://sukhamburg.com/products/details/5LMM15-S150-1_55CM-405-10-Y07-A7_5-C-6 from 5/7/2024

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

LEGAL NOTICE

Copyright 2020 Schäfter+Kirchhoff GmbH. All rights reserved.

Text, image, graphic, sound, video and animation files and their arrangement on Schäfter+Kirchhoff GmbH webpages are protected by copyright and other protective laws. The content may not be copied for commercial use or reproduced, modified or used on other websites. [\[more\]](#)