

5LTM-500-11+55CM-405-10-Y07-A7.5-P-6

Semi-telecentric Macro Line Generator



FEATURES

Semi-telecentric laser line with constant line length of 4.8 mm and extended depth of focus.

- Line length: 4.8 mm
- Line width: 295 μm
- Wavelength: 405 nm
- Working distance: 486 mm
- Depth of focus: 451 mm

- Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 5LTM-500-11+55CM-405-10-Y07-A7.5-P-6 produces a semi-telecentric laser line with 4.8 mm line length and 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 P](#) with micro-controller 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.

For this laser type the working distance is fixed. A fine-adjustment of the distance between laser and target is recommended for fine-focusing in order to achieve minimal line width.

TECHNICAL DATA

5LTM-500-11+55CM-405-10-Y07-A7.5-P-6

Series	5LTM	
Order Code	5LTM-500-11+55CM-405-10-Y07-A7.5-P-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	
Focussing range	486-486 mm	
Working distance	486 mm	
Line length	4.8 mm	
Line width	0.295 mm	
Depth of focus	451 mm	
Edge intensity	9 %	
Diameter laser module	25/28 mm	
Module length	78.5 mm	
Installation length	594.5 mm	
Cable length	1.5 m	
Connector type	Lumberg SV50 IEC 61076-2-106	
Supply voltage	5 ± 0.2 V	
Max. current consumption	0.5 A	
Working temperature	15 - 40 °C	
Modulation inputs	Analog	TTL
Input resistance	9 kOhm	9 kOhm
Max. modulation frequency	0.01 kHz	250 kHz
Modulation delay ON/OFF	3000/3000 µs	0.5/0.2 µs
Rise / Fall time	40000/40000 µs	0.5/0.5 µs

ACCESSORIES

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
SBN 050501	For laser diode beam sources of electronics type S/C/P/H and 5 V power supply

RELATED PRODUCTS

LASER MODULES SERIES 5LT-2	<ul style="list-style-type: none">▪ Semi-telecentric Micro Line▪ Gaussian intensity distribution▪ Constant line length ca. 2 mm
LASER MODULES SERIES LNC-5LTM-2	<ul style="list-style-type: none">▪ Semi-telecentric Macro Line▪ Gaussian intensity distribution▪ Constant line length ca. 2 mm▪ Extended depth of focus▪ Low noise
LASER MODULES SERIES 13LTM	<ul style="list-style-type: none">▪ Semi-telecentric Macro Line▪ Uniform intensity distribution▪ Constant line length 15 mm▪ Extended depth of focus
LASER MODULES SERIES 5LTM-1+25CM	<ul style="list-style-type: none">▪ Compact semi-telecentric Macro Line▪ Gaussian intensity distribution▪ Constant line length ca. 4.8 mm▪ Extended depth of focus
LASER MODULES SERIES 5LTM-1	<ul style="list-style-type: none">▪ Semi-telecentric Macro Line▪ Gaussian intensity distribution▪ Constant line length ca. 4.8 mm▪ Extended depth of focus
LASER MODULES SERIES 5LTM-2+25CM	<ul style="list-style-type: none">▪ Compact semi-telecentric Macro Line▪ Gaussian intensity distribution▪ Constant line length ca. 2 mm▪ Extended depth of focus

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