

13LRM25-S500-1.5+55CM-785-56-Q06-T12-CS-7

Laser Macro Line Generator with a fan angle



FEATURES

Laser line with a fan angle, approx. uniform intensity distributionand extended depth of focus.

Line length: 217 mm
Line width: 379 μm
Wavelength: 785 nm
Working distance: 485 mm
Depth of focus: 389 mm

- Macro Line Generator for extended depth of focus
- With RS232 interface





DESCRIPTION

The laser diode beam source type 13LRM25-S500-1.5+55CM-785-56-Q06-T12-CS-7 has a fan angle of 25° with a constant line width and approx. uniform intensity distribution along the laser line as well an extended depth of focus.

The fine-structure is a <u>chain of equidistant dots</u> with a spacing of approx. 1/2 the line width. 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 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

13LRM25-S500-1.5+55CM-785-56-Q06-T12-CS-7

Line type Laser Macro Line Wavelength 785 ±10/-10 nm Laser output power 56 mW Laser safety class 3B Fan angle α 25 deg Focussing range 355-780 mm Working distance 485 mm Line length 217 mm Line width 0.379 mm Depth of focus 389 mm Edge intensity 80 % Diameter laser module 25/28 mm Module length 86.8 mm Installation length 601.8 mm Cable length 1.5 m Connector type Lumberg SV70 IEC 61076-2-106 Supply voltage 5 ± 0.2 V Max. current consumption 0.25A 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 <th colspan="3">Series 13LRM</th>	Series 13LRM		
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Modulation inputsAnalogTTLInput resistance9 kOhm9 kOhmMax. modulation frequency0.001 kHz250 kHzModulation delay ON/OFF3000/3000 μs0.5/0.2 μsRise / Fall time200000/200000 μs0.8/0.4 μs	Max. current consumption	0.25 A	
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Rise / Fall time 200000/200000 μs 0.8/0.4 μs	Max. modulation frequency	0.001 kHz	250 kHz
	Modulation delay ON/OFF	3000/3000 μs	0.5/0.2 μs
Interface RS232	Rise / Fall time	200000/200000 μs	0.8/0.4 μs
	Interface	RS232	



DOWNLOADS



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 13LR Micro Line Generator, fan angle

Uniform intensity distribution

LASER MODULES SERIES 13LNM Micro Line Generator, small fan angle

Uniform 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+25CM Compact Macro Line, large fan angle

Gaussian intensity distribution

Extended depth of focus

LASER MODULES SERIES 5LMM Macro 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



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