

13LRM12-S250-1.5+55CM-450-35-O06-T15-P-6

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: 52 mm
Line width: 108 μm
Wavelength: 450 nm
Working distance: 236 mm
Depth of focus: 55.7 mm

Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 13LRM12-S250-1.5+55CM-450-35-O06-T15-P-6 has a fan angle of 12° 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 $\underline{type\ P}$ with micro-controller 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

13LRM12-S250-1.5+55CM-450-35-O06-T15-P-6

Order Code 13LRM12-S250-1.5+55CM-45 Line profile Constant In Line type Wavelength Laser output power Laser safety class Fan angle α Focussing range Working distance	Laser Macro 450 +10/-1	oution o Line		
Line type Wavelength Laser output power Laser safety class Fan angle α Focussing range	Laser Macro 450 +10/-1	Line		
Wavelength Laser output power Laser safety class Fan angle α Focussing range	450 +10/-1			
Laser output power Laser safety class Fan angle α Focussing range		LO nm		
Laser safety class Fan angle α Focussing range	35			
Fan angle α Focussing range		35 mW		
Focussing range		3B		
	12 deg			
Working distance	195-35	5 mm		
	230	6 mm		
Line length	52 mm			
Line width	0.108 mm			
Depth of focus	55.7 mm			
Edge intensity		80 %		
Diameter laser module	25/28 mm			
Module length	86.8 mm			
Installation length	352.8 mm			
Cable length	-	1.5 m		
Connector type Lumberg SV5	Lumberg SV50 IEC 61076-2-106			
Supply voltage	5 ± 0.2 V			
Max. current consumption		0.5 A		
Working temperature	15 - 4	40 °C		
Modulation inputs Analo	og	TTL		
Input resistance 9 kOh	m 9 k	(Ohm		
Max. modulation frequency 0.01 kH	lz 250	0 kHz		
Modulation delay ON/OFF 3000/3000 µ	us 0.5/0).2 μs		
Rise / Fall time 40000/40000 µ	us 0.5/0).5 μs		



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

PS051003E Power Supply 5 V

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 distributionExtended 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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