

13LRM40-M125-1.5+55CM-785-60-Q06-T12-C-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: 0 mm
Line width: 95 μm
Wavelength: 785 nm
Working distance: 111 mm
Depth of focus: 24.3 mm

Macro Line Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 13LRM40-M125-1.5+55CM-785-60-Q06-T12-C-6 has a fan angle of 40° 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 $\underline{type\ C}$ 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

13LRM40-M125-1.5+55CM-785-60-Q06-T12-C-6

Series	ies 13LRM		
Order Code	13LRM40-M125-1.5+55CM-785-60-Q06-T12-C-6		
Line profile	Constant Intensity Distribution		
Line type	Laser Macro Line		
Wavelength	785 +10/-10 nm		
Laser output power	60 mW		
Laser safety class	3В		
Fan angle α	40 deg		
Focussing range	95-195 mm		
Working distance	111 mm		
Line length	0 mm		
Line width	0.095 mm		
Depth of focus	24.3 mm		
Edge intensity	80 %		
Diameter laser module	25/28 mm		
Module length	91.3 mm		
Installation length	232.3 mm		
Cable length	1.5 m		
Connector type	Lumberg SV50 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	22 kOhm	22 kOhm	
Max. modulation frequency	100 kHz	100 kHz	
Modulation delay ON/OFF	1/0.5 μs	2/1 μs	
Rise / Fall time	3/2 μs	3/2 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 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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