13M-M60+55CM-640-30-H22-T15-C-6

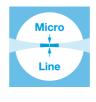
Laser Micro Focus Generator with elliptical Gaussian beam profile



FEATURES

Laser spot with elliptical Gaussian beam profile.

- Spot diameter: 0.005 x 0.012 mm
- Wavelength: 640 nm
- Working distance: 54 mm
- Micro Focus Generator for small spot widths and high power density in the focal plane



DESCRIPTION

The laser diode beam source type 13M-M60+55CM-640-30-H22-T15-C-6 produces an elliptical laser spot with elliptical Gaussian intensity distribution.

The laser has integrated electronics <u>type C</u> for control of the laser output power. 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 the spot diameter increases proportionally to the working distance. A fine-adjustment of the distance between laser and target is recommended for fine-focusing.

TECHNICAL DATA

13M-M60+55CM-640-30-H22-T15-C-6

 Series
 13M

 Order Code
 13M-M60+55CM-640-30-H22-T15-C-6





DATA SHEET

Laser output power30 mWLaser safety class3BFocussing range40-80 mmWorking distance54 mmSpot height0.012 mmSpot width0.005 mmRayleigh range0.069 mmDiameter laser module25/28 mmModule length75.9 mmInstallation length159.9 mmCable length1.5 mConnector typeLumberg SV50 IEC 61076-2-106Supply voltage5 ± 0.2 VMax. current consumption0.25 AWorking temperature0 - 40 °CModulation inputsAnalogInput resistance22 kOhmMax. modulation frequency100 kHz100 kHz100 kHz	Line profile	Gaussian Intensity Distribution	
Laser safety class3BFocussing range40-80 mmWorking distance54 mmSpot height0.012 mmSpot width0.005 mmRayleigh range0.069 mmDiameter laser module25/28 mmModule length75.9 mmInstallation length159.9 mmCable length1.5 mConnector typeLumberg SV50 IEC 61076-2-106Supply voltage5±0.2 VMax. current consumption0.25 AWorking temperature0 - 40 °CModulation inputsAnalogTTLInput resistance22 kOhm22 kOhmMax. modulation frequency100 kHz100 kHz100 kHz	avelength 640 +5/-5 nm		640 +5/-5 nm
Focussing range40-80 mmWorking distance54 mmSpot height0.012 mmSpot width0.005 mmRayleigh range0.069 mmDiameter laser module25/28 mmModule length75.9 mmInstallation length159.9 mmCable length1.5 mConnector typeLumberg SV50 IEC 61076-2-106Supply voltage5 ± 0.2 VMax. current consumption0.25 AWorking temperature0 - 40 °CModulation inputsAnalogInput resistance22 kOhmMax. modulation frequency100 kHz100 kHz100 kHz	Laser output power	30 mW	
Working distance54 mmSpot height0.012 mmSpot width0.005 mmRayleigh range0.069 mmDiameter laser module25/28 mmModule length75.9 mmInstallation length159.9 mmCable length1.5 mConnector typeLumberg SV50 IEC 61076-2-106Supply voltage5 ± 0.2 VMax. current consumption0.25 AWorking temperature0 - 40 °CModulation inputsAnalogTTLInput resistance22 kOhm22 kOhmMax. modulation frequency100 kHz100 kHz100 kHz	Laser safety class	3В	
Spot height0.012 mmSpot width0.005 mmRayleigh range0.069 mmDiameter laser module25/28 mmModule length75.9 mmInstallation length159.9 mmCable length1.5 mConnector typeLumberg SV50 IEC 61076-2-106Supply voltage5 ± 0.2 VMax. current consumption0.25AWorking temperature0 - 40 °CModulation inputsAnalogInput resistance22 kOhmMax. modulation frequency100 kHz100 kHz100 kHz	Focussing range	40-80 mm	
Spot width 0.005 mm Rayleigh range 0.069 mm Diameter laser module 25/28 mm Module length 75.9 mm Installation length 159.9 mm Cable length 1.5 m Connector type Lumberg SV50 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 22 kOhm 22 kOhm Max. modulation frequency 100 kHz 100 kHz	Working distance	54 mm	
Rayleigh range0.069 mmDiameter laser module25/28 mmModule length75.9 mmInstallation length159.9 mmCable length1.5 mConnector typeLumberg SV50 IEC 61076-2-106Supply voltage5 ± 0.2 VMax. current consumption0.25 AWorking temperature0 - 40 °CModulation inputsAnalogInput resistance22 kOhmMax. modulation frequency100 kHz	Spot height	0.012 mm	
Diameter laser module25/28 mmModule length75.9 mmInstallation length159.9 mmCable length1.5 mConnector typeLumberg SV50 IEC 61076-2-106Supply voltage5 ± 0.2 VMax. current consumption0.25 AWorking temperature0 - 40 °CModulation inputsAnalogInput resistance22 kOhmMax. modulation frequency100 kHz	Spot width		0.005 mm
Module length75.9 mmInstallation length159.9 mmCable length1.5 mConnector typeLumberg SV50 IEC 61076-2-106Supply voltage5±0.2 VMax. current consumption0.25 AWorking temperature0 - 40 °CModulation inputsAnalogTTLInput resistance22 kOhmMax. modulation frequency100 kHz	Rayleigh range		0.069 mm
Installation length159.9 mmCable length1.5 mConnector typeLumberg SV50 IEC 61076-2-106Supply voltage5 ± 0.2 VMax. current consumption0.25 AWorking temperature0 - 40 °CModulation inputsAnalogTTLInput resistance22 kOhm22 kOhmMax. modulation frequency100 kHz100 kHz	Diameter laser module		25/28 mm
Cable length1.5 mConnector typeLumberg SV50 IEC 61076-2-106Supply voltage5 ± 0.2 VMax. current consumption0.25AWorking temperature0 - 40 °CModulation inputsAnalogInput resistance22 kOhmMax. modulation frequency100 kHz	Module length	75.9 mm	
Connector typeLumberg SV50 IEC 61076-2-106Supply voltage5 ± 0.2 VMax. current consumption0.25 AWorking temperature0 - 40 °CModulation inputsAnalogInput resistance22 kOhmMax. modulation frequency100 kHz	Installation length	159.9 mm	
Supply voltage5 ± 0.2 VMax. current consumption0.25 AWorking temperature0 - 40 °CModulation inputsAnalogInput resistance22 kOhm22 kOhm22 kOhmMax. modulation frequency100 kHz	ble length 1.5 m		
Max. current consumption 0.25 Å Working temperature 0 - 40 °C Modulation inputs Analog Input resistance 22 kOhm Max. modulation frequency 100 kHz	Connector type	Lumberg SV50 IEC 61076-2-106	
Working temperature0 - 40 °CModulation inputsAnalogTTLInput resistance22 kOhm22 kOhmMax. modulation frequency100 kHz100 kHz	Supply voltage		5 ± 0.2 V
Modulation inputsAnalogTTLInput resistance22 kOhm22 kOhmMax. modulation frequency100 kHz100 kHz	Max. current consumption		0.25 A
Input resistance22 kOhm22 kOhmMax. modulation frequency100 kHz100 kHz	Working temperature		0 - 40 °C
Max. modulation frequency 100 kHz 100 kHz	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	Modulation delay ON/OFF	1/0.5 μs	2/1 µs
Rise / Fall time 3/2 μs 3/2 μs	Rise / Fall time	3/2 µs	3/2 µs

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
13МК-25-36-10-М	Mounting Console with base plate with dovetail profile
PS051003E	Power Supply 5 V

RELATED PRODUCTS





LASER MODULES SERIES 13MM	 Macro Focus Generator Circular beam profile Extended depth of focus
LASER MODULES SERIES 13MC	 Micro Focus Generator Rotationally symmetric, Gaussian beam profile
LASER MODULES SERIES LNC-13M	 Micro Focus Generator Elliptical Gaussian beam profile Low noise
LASER MODULES SERIES 5MC	 Compact Laser Micro Focus Generator Rotationally symmetric, Gaussian beam profile
LASER MODULES SERIES 5M	 Compact Laser Micro Focus Generator Elliptical Gaussian beam profile

This is a printout of the page <u>https://sukhamburg.com/products/details/13M-M60_55CM-640-30-H22-T15-C-6</u> from 5/2/2024

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