13M-S500+55CM-405-15-Y07-T15-C-6

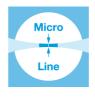
Laser Micro Focus Generator with elliptical Gaussian beam profile



FEATURES

Laser spot with elliptical Gaussian beam profile.

- Spot diameter: 0.031 x 0.068 mm
- Wavelength: 405 nm
- Working distance: 492 mm
- Micro Focus Generator for small spot widths and high power density in the focal plane



DESCRIPTION

The laser diode beam source type 13M-S500+55CM-405-15-Y07-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-S500+55CM-405-15-Y07-T15-C-6

 Series
 13M

 Order Code
 13M-S500+55CM-405-15-Y07-T15-C-6



DATA SHEET

Wavelength405 +5/-5Laser output power15 mLaser safety class100-815 mFocussing range410-815 mWorking distance492 mSpot height0.068 mSpot width0.031 mRayleigh range3.71 mDiameter laser module25/28 mModule length75.9 mInstallation length597.9 mCable length1.9Supply voltage5 ± 0.Max. current consumption0.
Laser safety classFocussing range410-815 mWorking distance492 mSpot height0.068 mSpot width0.031 mRayleigh range3.71 mDiameter laser module25/28 mModule length75.9 mInstallation length597.9 mCable length1.9Connector typeLumberg SV50 IEC 61076-2-1Supply voltage5 ± 0.
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Connector typeLumberg SV50 IEC 61076-2-1Supply voltage5 ± 0.
Supply voltage $5 \pm 0.$
Max. current consumption0.
Working temperature0 - 40
Modulation inputs Analog 7
Input resistance 22 kOhm 22 kO
Max. modulation frequency 100 kHz 100 k
Modulation delay ON/OFF1/0.5 μs2/1
Rise / Fall time3/2 µs3/2

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



DATA SHEET

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-S500_55CM-405-15-Y07-T15-C-6</u> from 4/23/2024

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