## 13M-S000+55CM-685-41-H13-T12-C-6

Laser Micro Focus Generator with elliptical Gaussian beam profile


## DESCRIPTION

The laser diode beam source type 13M-S000+55CM-685-41-H13-T12-C-6 produces an elliptical laser spot with elliptical Gaussian intensity distribution.

The laser has integrated electronics type $C$ for control of the laser output power. The output power can be controlled using the 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 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-S000+55CM-685-41-H13-T12-C-6

| Line profile | Gaussian Intensity Distribution |  |
| :---: | :---: | :---: |
| Wavelength |  | $685+10 /-10 \mathrm{~nm}$ |
| Laser output power |  | 41 mW |
| Laser safety class |  | 3B |
| Focussing range |  | 1295-inf mm |
| Working distance |  | 2000 mm |
| Spot height |  | 0.518 mm |
| Spot width |  | 0.232 mm |
| Rayleigh range |  | 123 mm |
| Diameter laser module |  | 25/28 mm |
| Module length |  | 75.9 mm |
| Installation length |  | 2105.9 mm |
| Cable length |  | 1.5 m |
| Connector type | Lumberg SV50 | EC 61076-2-106 |
| Supply voltage |  | $5 \pm 0.2 \mathrm{~V}$ |
| Max. current consumption |  | 0.25A |
| Working temperature |  | 0-40 ${ }^{\circ} \mathrm{C}$ |
| Modulation inputs | Analog | TTL |
| Input resistance | 22 kOhm | 22 kOhm |
| Max. modulation frequency | 100 kHz | 100 kHz |
| Modulation delay ON/OFF | 1/0.5 $\mu \mathrm{s}$ | $2 / 1 \mu \mathrm{~s}$ |
| Rise / Fall time | $3 / 2 \mu \mathrm{~s}$ | $3 / 2 \mu \mathrm{~s}$ |

## ACCESSORIES

50HD-15

9D-12

13MK-25-36-10-F

13MK-25-36-10-M

PS051003E

Hex key WS 1.5

Screwdriver WS 1.2

Mounting Console with flat base plate

Mounting Console with base plate with dovetail profile

Power Supply 5 V

## RELATED PRODUCTS

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

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## CONTACT

For more information please contact:
Schäfter + Kirchhoff GmbH
Kieler Str. 212
22525 Hamburg
Germany
Tel: +49 408539 97-0
Fax: +49 408539 97-79
info@sukhamburg.de
www.sukhamburg.com

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