13MM-M100-4+55CM-640-16-H22-T15-C-6

Laser Macro Focus Generator with approx. circular beam profile

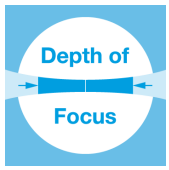


FEATURES

Laser spot with approx. circular beam profile and extended depth of focus.

- Spot diameter: 0.029 x 0.026 mm
- Wavelength: 640 nm
- Working distance: 84 mm
- Depth of focus: 1.78 mm

- Macro Focus Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 13MM-M100-4+55CM-640-16-H22-T15-C-6 produces a circular laser spot with extended depth of focus. The beam profile is approx. Gaussian. More precisely it has an elliptical intensity distribution clipped by a circular aperture.

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

13MM-M100-4+55CM-640-16-H22-T15-C-6

Series		13MM
Order Code		13MM-M100-4+55CM-640-16-H22-T15-C-6
Line profile		Gaussian Intensity Distribution
Wavelength		640 +5/-5 nm
Laser output power		16 mW
Laser safety class		3B
Focussing range		80-110 mm
Working distance		84 mm
Spot height		0.026 mm
Spot width		0.029 mm
Depth of focus		1.78 mm
Diameter laser module		25/28 mm
Module length		84.3 mm
Installation length		198.3 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

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

This is a printout of the page https://sukhamburg.com/products/details/13MM-M100-4_55CM-640-16-H22-T15-C-6 from 3/28/2024

CONTACT

For more information please contact:
Schäfter + Kirchhoff GmbH
Kieler Str. 212
22525 Hamburg
Germany
Tel: +49 40 85 39 97-0
Fax: +49 40 85 39 97-79

info@sukhamburg.de
www.sukhamburg.com

LEGAL NOTICE

Copyright 2020 Schäfter+Kirchhoff GmbH. All rights reserved.

Text, image, graphic, sound, video and animation files and their arrangement on Schäfter+Kirchhoff GmbH webpages are protected by copyright and other protective laws. The content may not be copied for commercial use or reproduced, modified or used on other websites. [more]