#### 13MM-M60-4+55CM-1550-14-Q04-T12-P-6

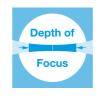
Laser Macro Focus Generator with approx. circular beam profile



#### FEATURES

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

- Spot diameter: 0.043 x 0.038 mm
- Wavelength: 1550 nm
- Working distance: 45 mm
- Depth of focus: 1.55 mm
- Macro Focus Generator for extended depth of focus



## DESCRIPTION

The laser diode beam source type 13MM-M60-4+55CM-1550-14-Q04-T12-P-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 <u>type P</u> with micro-controller 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**

13MM-M60-4+55CM-1550-14-Q04-T12-P-6



## **DATA SHEET**

Series		13MM
Order Code	13MM-M60-4+55CM-1550-14-Q04-T12-P-6	
Line profile	Gaussian Intensity Distribution	
Wavelength	1550 +20/-20 nm	
Laser output power	14 mW	
Laser safety class	3R	
Focussing range	40-80 mm	
Working distance	ag distance 45 mm	
Spot height	ot height 0.038 mm	
Spot width	0.043 mm	
Depth of focus	1.55 mm	
Diameter laser module	25/28 mm	
Module length	84.3 mm	
Installation length	159.3 mm	
Cable length	1.5 m	
Connector type	Lumberg SV50 IEC 61076-2-106	
Supply voltage	5 ± 0.2 V	
Max. current consumption	0.5 A	
Working temperature	15 - 40 °C	
Modulation inputs	Analog	TTL
Input resistance	9 kOhm	9 kOhm
Max. modulation frequency	0.01 kHz	250 kHz
Modulation delay ON/OFF	3000/3000 µs	0.5/0.2 μs
Rise / Fall time	40000/40000 μs	0.5/0.5 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 13M	<ul> <li>Micro Focus Generator</li> <li>Elliptical Gaussian beam profile</li> </ul>
LASER MODULES SERIES LNC-13MM	<ul> <li>Macro Focus Generator</li> <li>Circular beam profile</li> <li>Extended depth of focus</li> <li>Low noise</li> </ul>
LASER MODULES SERIES 13MMC	<ul> <li>Laser Macro Focus Generator</li> <li>Rotationally symmetric beam profile</li> <li>Extended depth of focus</li> </ul>
LASER MODULES SERIES 5MM	<ul> <li>Compact Laser Macro Focus Generator</li> <li>Circular beam profile and</li> <li>Extended depth of focus</li> </ul>

This is a printout of the page <u>https://sukhamburg.com/products/details/13MM-M60-4\_55CM-1550-14-Q04-T12-P-6</u> from 4/26/2024

#### 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]

