

5MM-A15-0.8+25CM-639-5-H18-A4.5-S-6

Compact Laser Macro Focus Generator with approx. circular beam profile

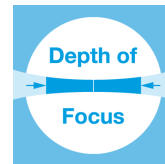


FEATURES

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

- Spot diameter: 0.021 x 0.02 mm
- Wavelength: 639 nm
- Working distance: 13.4 mm
- Depth of focus: 1 mm

- Macro Focus Generator for extended depth of focus



DESCRIPTION

The laser diode beam source type 5MM-A15-0.8+25CM-639-5-H18-A4.5-S-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 S](#) 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

5MM-A15-0.8+25CM-639-5-H18-A4.5-S-6

Series	5MM	
Order Code	5MM-A15-0.8+25CM-639-5-H18-A4.5-S-6	
Line profile	Gaussian Intensity Distribution	
Wavelength	639 +10/-10 nm	
Laser output power	5 mW	
Laser safety class	3R	
Focussing range	15-35 mm	
Working distance	13.4 mm	
Spot height	0.02 mm	
Spot width	0.021 mm	
Depth of focus	1 mm	
Diameter laser module	12 mm	
Module length	64.3 mm	
Installation length	107.7 mm	
Cable length	1.5 m	
Connector type	Lumberg SV50 IEC 61076-2-106	
Supply voltage	5 ± 0.25 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	50 kHz	1000 kHz
Modulation delay ON/OFF	4/0.5 µs	0.05/0.05 µs
Rise / Fall time	5/4 µs	0.1/0.02 µs

ACCESSORIES

60EX-4	Eccentric key with a stroke of ± 0.5 mm.
60EX-4-L	Alternative eccentric key with long handle with a stroke of ± 0.5 mm.
9D-12	Screwdriver WS 1.2
PS051003E	Power Supply 5 V

RELATED PRODUCTS

**LASER MODULES
SERIES 5M**

- **Compact** Laser Micro Focus Generator
- Elliptical Gaussian beam profile

**LASER MODULES
SERIES 13MMC**

- Laser Macro Focus Generator
- **Rotationally symmetric** beam profile
- Extended depth of focus

**LASER MODULES
SERIES 13MM**

- Macro Focus Generator
- **Circular** beam profile
- Extended depth of focus

This is a printout of the page https://sukhamburg.com/products/details/5MM-A15-0_8_25CM-639-5-H18-A4_5-S-6 from 4/18/2024

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