#### 13M-S500+55CM-450-60-O06-T15-PS-7

Laser Micro Focus Generator with elliptical Gaussian beam profile



#### **FEATURES**

Laser spot with elliptical Gaussian beam profile.

- Spot diameter: 0.03 x 0.086 mm
- Wavelength: 450 nm
- Working distance: 492 mm
- Micro Focus Generator for small spot widths and high power density in the focal plane
- With RS232 interface



### DESCRIPTION

The laser diode beam source type 13M-S500+55CM-450-60-O06-T15-PS-7 produces an elliptical laser spot with elliptical Gaussian intensity distribution.

The laser has integrated electronics <u>type PS</u> with micro-controller for control of the laser output power and serial interface (RS232). 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-450-60-O06-T15-PS-7

Series

13M



## **DATA SHEET**

Order Code	13M-S500+55CM-450-60-O06-T15-PS-7	
Line profile	Gaussian Intensity Distribution	
Wavelength	450 +10/-10 nm	
Laser output power	60 mW	
Laser safety class	3В	
Focussing range	410-815 mm	
Working distance	492 mm	
Spot height		0.086 mm
Spot width		0.03 mm
ayleigh range 3.24 mm		
Diameter laser module	25/28 mm	
Module length	75.9 mm	
Installation length	597.9 mm	
Cable length	1.5 m	
Connector type	Lumberg SV70 IEC 61076-2-106	
Supply voltage	5 ± 0.2 V	
Max. current consumption	<b>lax. current consumption</b> 0.5A	
Working temperature		15 - 40 °C
Modulation inputs	Analog	TTL
Input resistance	9 kOhm	9 kOhm
Max. modulation frequency	0.001 kHz	250 kHz
Modulation delay ON/OFF	3000/3000 μs	0.6/0.2 μs
Rise / Fall time	200000/200000 µs	0.2/0.2 μs
Interface		RS232

### 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



PS051007	E

Power Supply 5 V for laser modules with RS232 interface

## **RELATED PRODUCTS**

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

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