

## 5M-S325+25CM-785-90-Q06-A8-S-6

Compact Laser Micro Focus Generator with elliptical Gaussian beam profile



### FEATURES

Compact Laser spot with elliptical Gaussian beam profile.

- Spot diameter: 0.086 x 0.153 mm
- Wavelength: 785 nm
- Working distance: 317 mm

- Micro Focus Generator for small spot widths and high power density in the focal plane



## DESCRIPTION

The laser diode beam source type 5M-S325+25CM-785-90-Q06-A8-S-6 produces an elliptical laser spot with elliptical Gaussian intensity distribution.

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

5M-S325+25CM-785-90-Q06-A8-S-6

Series

5M

|                           |                                 |              |
|---------------------------|---------------------------------|--------------|
| Order Code                | 5M-S325+25CM-785-90-Q06-A8-S-6  |              |
| Line profile              | Gaussian Intensity Distribution |              |
| Wavelength                | 785 +10/-10 nm                  |              |
| Laser output power        | 90 mW                           |              |
| Laser safety class        | 3B                              |              |
| Focussing range           | 260-430 mm                      |              |
| Working distance          | 317 mm                          |              |
| Spot height               | 0.153 mm                        |              |
| Spot width                | 0.086 mm                        |              |
| Rayleigh range            | 14.9 mm                         |              |
| Diameter laser module     | 12 mm                           |              |
| Module length             | 60.7 mm                         |              |
| Installation length       | 407.7 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 5MM**

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

**LASER MODULES  
SERIES 13MC**

- Micro Focus Generator
- **Rotationally symmetric**, Gaussian beam profile

**LASER MODULES  
SERIES 5MC**

- **Compact** Laser Micro Focus Generator
- **Rotationally symmetric**, Gaussian beam profile

**LASER MODULES  
SERIES 13M**

- Micro Focus Generator
- Elliptical Gaussian beam profile

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