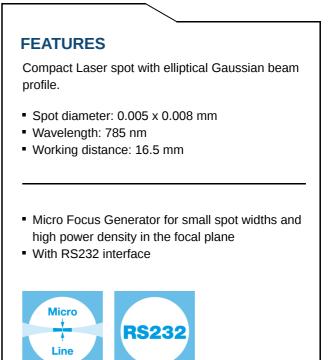
5M-A18+55CM-785-90-Q06-A8-CS-7

Compact Laser Micro Focus Generator with elliptical Gaussian beam profile





DESCRIPTION

The laser diode beam source type 5M-A18+55CM-785-90-Q06-A8-CS-7 produces an elliptical laser spot with elliptical Gaussian intensity distribution.

The laser has integrated electronics <u>type CS</u> for control of the laser output power and serial interface (RS232). The output power can be controlled using the <u>modulation input</u> <u>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

5M-A18+55CM-785-90-Q06-A8-CS-7



DATA SHEET

Series		5M
Order Code	5M-A18+55CM-785-90-Q06-A8-CS-7	
Line profile	Gaussian Intensity Distribution	
Wavelength	785 +10/-10 nm	
Laser output power	90 mW	
Laser safety class	3В	
Focussing range	15-35 mm	
Working distance	16.5 mm	
Spot height	0.008 mm	
Spot width	0.005 mm	
Rayleigh range	0.046 mm	
Diameter laser module	25/28 mm	
Module length	76.4 mm	
Installation length	122.9 mm	
Cable length	1.5 m	
Connector type	Lumberg SV70 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	9 kOhm	9 kOhm
Max. modulation frequency	0.001 kHz	250 kHz
Modulation delay ON/OFF	3000/3000 μs	0.5/0.2 μs
Rise / Fall time	200000/200000 μs	0.8/0.4 µs
Interface		RS232

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 \pm 0.5 mm.
9D-12	Screwdriver WS 1.2

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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