

**Product Name:** C Laser

**Product description:** Micro Spot Laser with stabilized Wavelength and Polarisation maintaining with Micro spot. For particle sizing, Digital holographic microscopy, Spectroscopy, Flow cytometry, Fluorescence microscopy and Profilometry Imaging.

**Datasheet date:** 20.06.2025



### SPECIFICATIONS/ESPECIFICACIONES

#### OPTICAL:

Wavelength	nm	640
Output Power after collimator	mW	10-50
Short term radiant flux stability	%	< 0,2 (in 1 minute / sampling interval 5 secs.)
Long term radiant flux stability	%	< 2 (in 8 hrs/ sampling interval 5 secs.)
Flux stability		
Polarization. ext. ratio	dB	< -17
Optical noise	%	< 0,1 RMS (20 Hz to 2 MHz)
Fibre Length	M	1 +/- 0,1
Fibre Jacket diam.	mm	< 3
Fibre protect. Tube		Flexible stainless steel, polymer coated
Fibre bend radius	mm	< 25
Collimator Dimension.	mm	Diam. 8x22
Output Beam diameter	um	125 +/- 20 at 5 mm from collimator
Far field div.	mRd	6,5 +/- 1,0
Output polarization Orientation	deg	Parallel to flat on output barrel +/- 5º
Static beam pointing error	mRd	< 1

#### ELECTRICAL:

Operation Voltage	Vdc	4 to 5
Laser current consumption	A	< 0,5
TEC Input Voltage	Vdc	5 to 1
TEC current consumption	A	< 1,2
<b>Connector I/F</b>	HD SubD15	
Laser Monitor PD output	Vdc	Pin1 : output 0,2- 2,5
Laser operating current	A	Pin 2 : output 0,2-2,5
Return for Pins 1,2 & 5	Vdc	Pin 3 : input 0
Reserved		Pins 4,8,13&15 not connected
Laser enable (active low)		Pin 5 : digital input 0 – 5,5: ON < 0,8/OFF 3,2

Laser supply Voltage	Vdc	Pin 6: input 4 to 5 ( up to 0,5A current)
Laser supply Voltage return	Vdc	Pins 7 & 9 : input 0
Chassis ground		
TEC supply Voltage	Vdc	Pin 11 : input 5 – 12
TEC supply Voltage return	Vdc	Pins 12 % 14: input 0

<b>ENVIRONMENTAL:</b>		
Laser operation temperature		10 to 40
Fibre operation temperature		10 to 65
Base temperature		< 40
Storage temperature		5 to 70
Operation humidity		Non condensing, DP<20°C
Laser product class		3b(EN-60825) duly identified

<b>MECHANICAL:</b>		
Dimensions		106x40x38mm
Housing material & tratement		Anodized Aluminium
Traceability		Serial number

