

CS405FP60-4.5

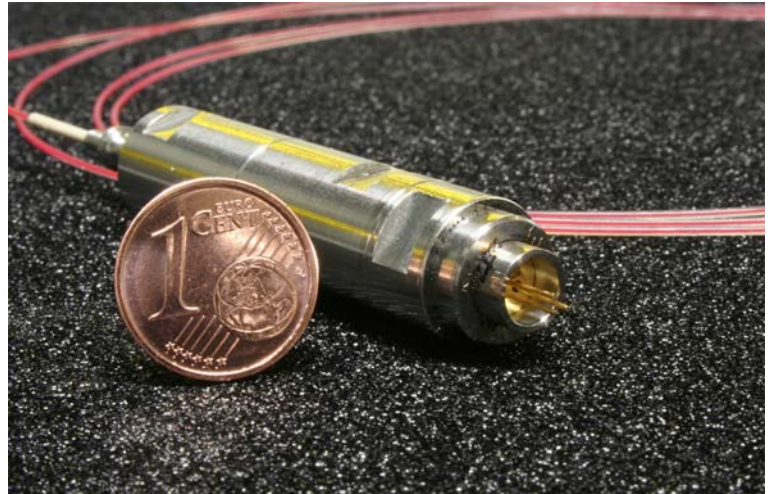
Fiber Coupled Diode Laser, 405 nm

FEATURES

- 405 nm
- 60 mW output power
- 4.5 μ m SMF

APPLICATIONS

- Printing
- Aiming beam
- Biochemical analysis
- Scientific
- Different fiber connectors

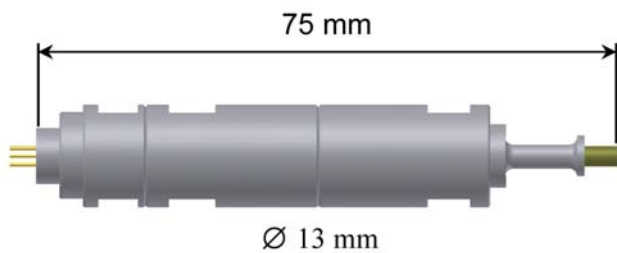


GENERIC CHARACTERISTICS

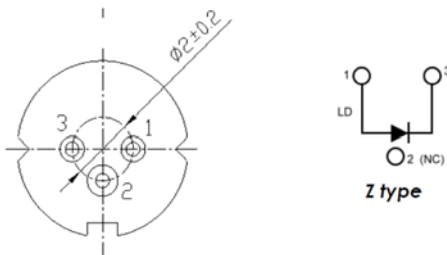
	Min	Typ	Max	Units
Wavelength		405		nm
Power			60	mW
Core Diameter		4.5		μ m
Numerical aperture		0.06		NA
Threshold Current		35		mA
Operating Current			115	mA
Operating Voltage		4.8		V
Operating Temperature	15	20	25	$^{\circ}$ C
Storage Temperature	-20		+80	$^{\circ}$ C
Operating Humidity			70	%
Length		75		mm
Diameter		13		mm



PACKAGE DRAWING



DIODE LASER PIN CONNECTION



OPERATING PRECAUTIONS

In Operation

- Mount Diode Laser package on heat dissipative surface. Allow convective cooling.
- Avoid eye exposure to direct or scattered radiation.
- Optical output power and operating voltage level will change with temperature change.
- Since the LD will degrade over lifetime it will require more operation current to maintain same output power.
- Be sure that electrical spike current generated by switching on and off does not exceed the specified maximum operating current.

ESD Protection

- Static electricity or electrical surges will reduce and degrade the reliability of the LDs.
- Confirm to use a wrist strap or anti-electrostatic glove when handling the diode laser package.
- Short-circuit pins while storing.

Fiber Bend Radius >100 mm

Soldering Temperature <260°C, <10 s



05/10 / V1 / HW / divers-vis/lcs/ cs405fp60-4_5.doc

