



Laser Module



Key Features

Highly Efficient

Single Mode Output

Compact Module

Stable Over Temperature
(15°C to 45°C)

Wavelengths Available from
1.908 μm to 2.050 μm

CW or QCW

Applications

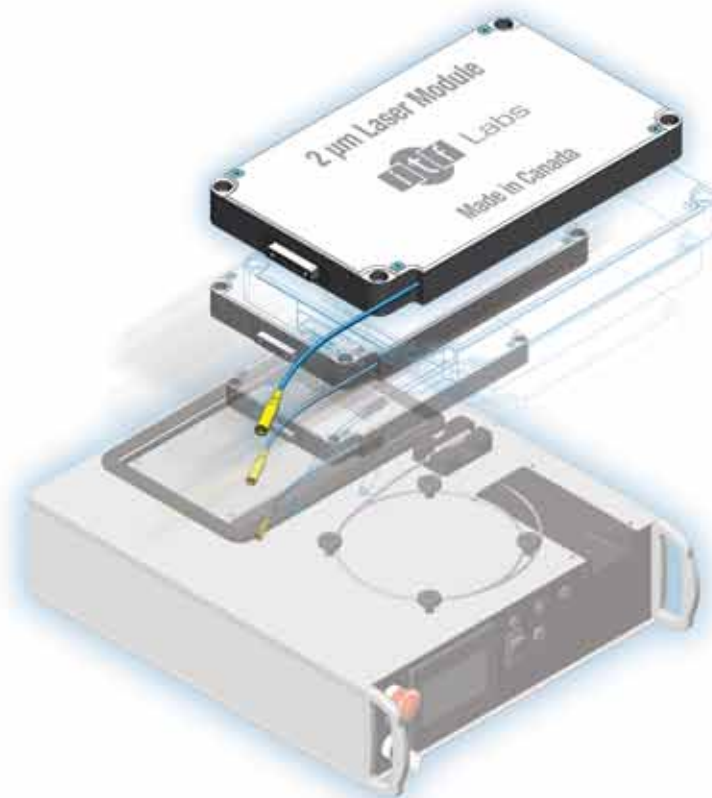
Medical

Military IRCM

Industrial

2 μm 15W Laser Module

The 2 μm 15W laser module is a compact system comprising both the resonator and the pump diodes in a single enclosure. A red tracer beam can also be added. The unit is also available as a stand-alone laser incorporating power supply and programmable laser drive electronics. Operation is possible over a wide range of wavelengths to suit your application.



For more Info

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Laser Module

**2 μ m 15w
laser module**

SPECIFICATIONS* (LAST0 SERIES) **OPTICAL PERFORMANCE**

Parameters	Min.	Typ.	Max.	Units
Laser wavelengths available (1)	1908	1980	2050	nm
Laser linewidth (1)			0.5	nm
Output power (1)	15			W
Output beam quality (1), (2)			1.2	M2
Polarization		random		
Electrical to optical efficiency (1)	20			%

SPECIFICATIONS* **MECHANICAL & ENVIRONMENTAL**

Parameters	Value
Fiber laser electrical interface (3)	17W2 D-Sub
Operating current & voltage	15V 0-8A
Fiber laser operation	CW or modulated pump
Maximum direct modulation frequency (4)	5 KHz
Operating temperature	15 to 45°C
Storage temperature	-40 to 70°C
Humidity	0 to 85%
Cooling (5)	Forced air or conduction cooled
Laser output interface (3), (6)	Collimated beam 3mm (No Isolator)
Monitoring photodiode (3), (7)	Optional
Backward monitoring photodiode ((3), (7)	Optional
Red beam tracker (3), (7)	Optional

(1) Over operating temperature range

(2) By design

(3) See laser interface drawing

(4) Limited by the Thulium excited state lifetime

(5) The laser based plate should be kept within the operating temperature range

(6) Optional isolator available in other laser version

(7) See laser user manual

*Specifications subject to change without notice.

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ORDERING INFORMATION

For standard products, please use product codes specified above. ITF Labs can also develop custom products to meet a wide range of technical requirements.

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