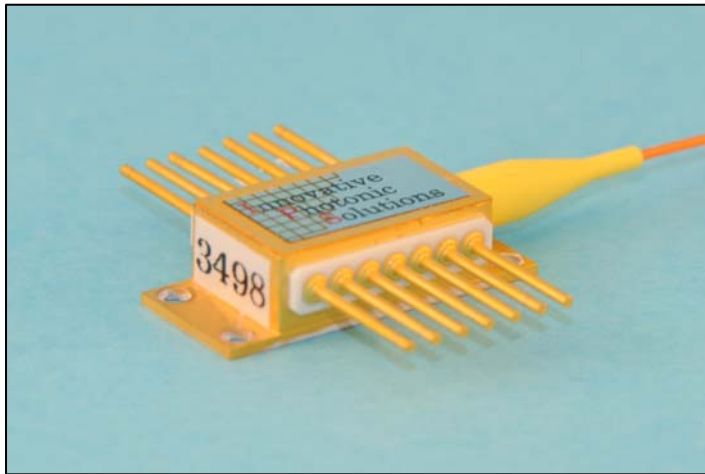


High Power 976 nm Spectrum Stabilized Multi-Mode Pump Laser



Features:

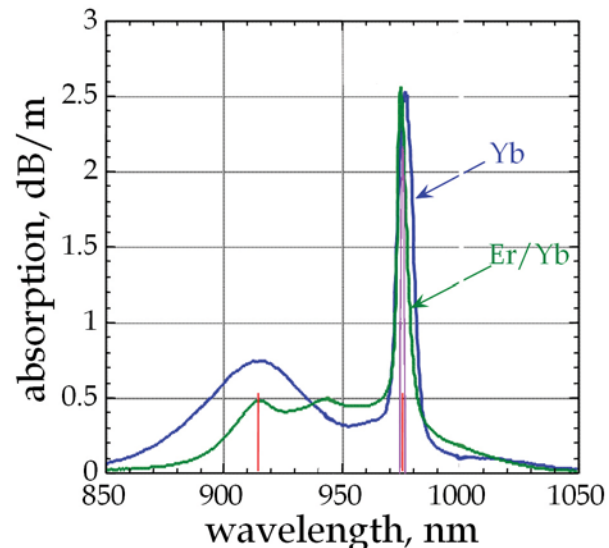
- > 6W Fiber Coupled Output Power
- Narrow Spectral Linewidth (< 0.2 nm)
- Wavelength Drift < 0.007 nm/°C
- Uncooled Package

Target Applications:

- Fiber Laser Pumping
- Raman Spectroscopy

Innovative Photonic Solution's proprietary Multi-Mode Spectrum Stabilized Laser features high output power with narrow spectral bandwidth that "locks" the spectrum so that all of the pump's power remains within the absorption band. This dramatically reduces total system costs because it eliminates the need to "bin" lasers while enabling more efficient pumping - reducing the number of pumps required to achieve the desired output power level. But the key advantage of IPS's spectrum stabilized pump stems from the fact that it ALWAYS pumps in the maximum efficiency portion of the absorption band. Since the pump light is absorbed more efficiently in the fiber, the fiber length can be shortened by as much as 60%. And since non-linear effects (such as Stimulated Brillouin Scattering) are length dependant, users can achieve higher peak power levels before SBS becomes an issue that needs to be addressed.

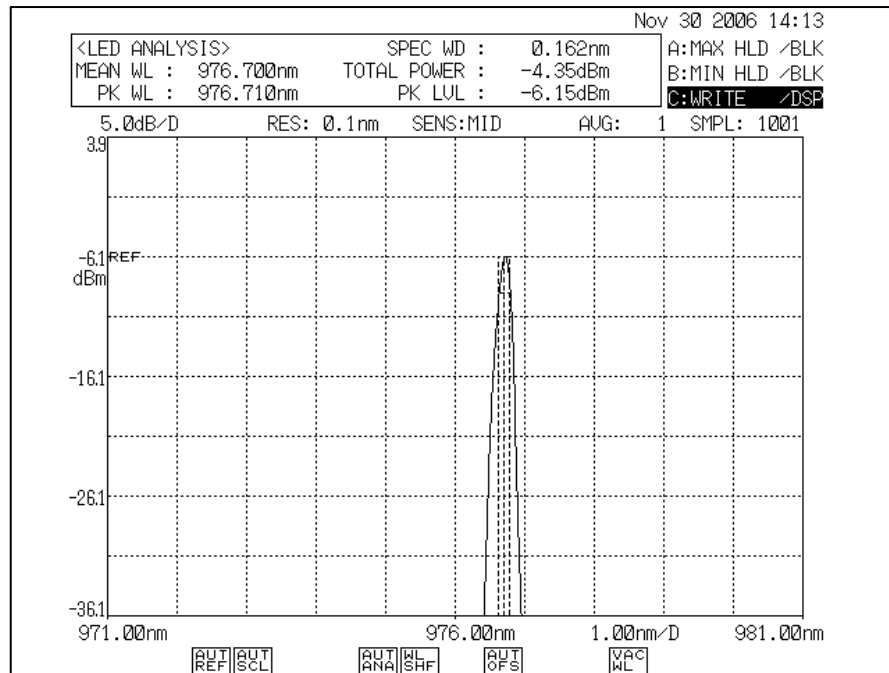
**ALL THE POWER
IN THE BAND
ALL THE TIME!**



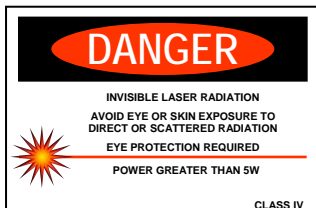
Product Specifications:

Parameter	Test Conditions	Units	I0976MB4000M			I0976MB6000M		
			Min	Typ	Max	Min	Typ	Max
Stabilized Lasing Wavelength	Peak λ at lop and TEC @ 25-35 Deg C	nm		976			976	
Lasing Wavelength Tolerance		nm		0.3	0.5		0.3	0.5
Spectral Width	FWHM at lop and TEC @ 25-35 Deg C	nm		0.15	0.25		0.15	0.25
Output power	Output from 100 micron core Multi-Mode fiber	mW	3000	4000		5000	6000	
Operational Current	lop	mA			6000			9000
Operational Temperature Range	Case temperature	Deg C	25		50	25		50

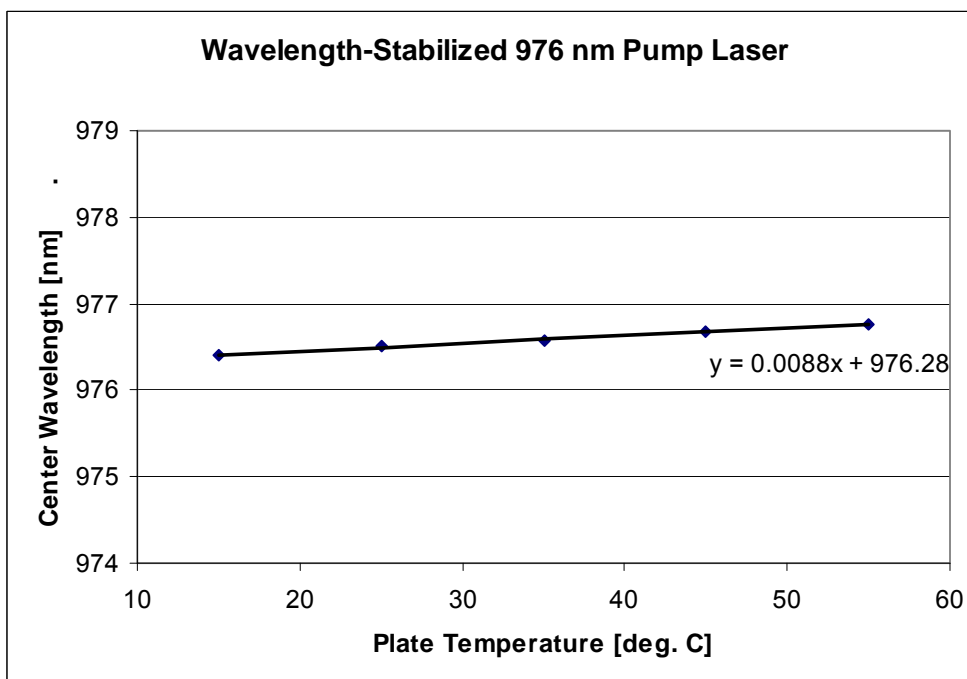
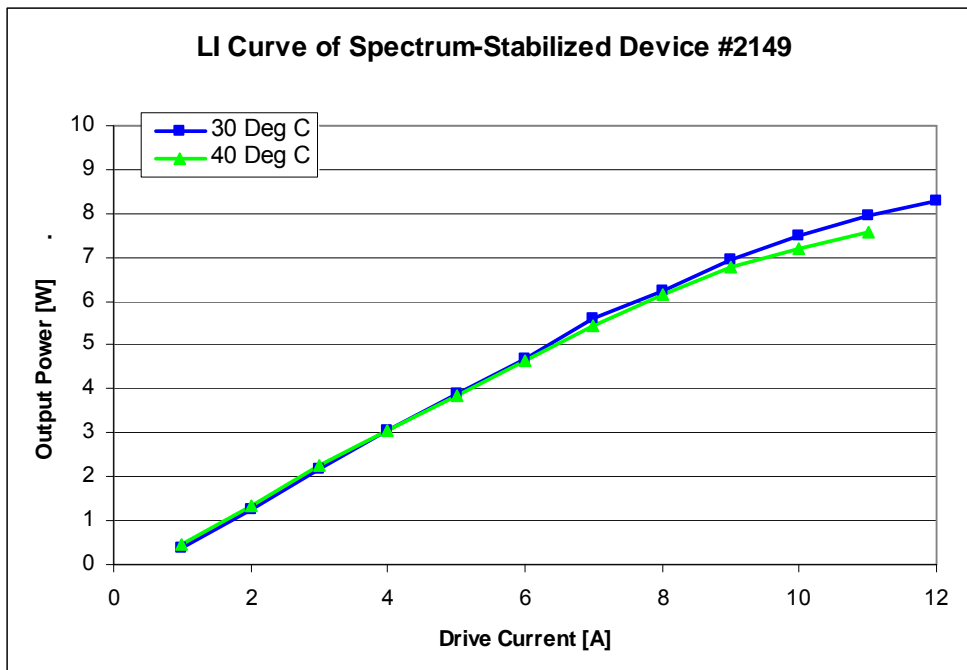
Typical Spectral Plot:



Output Spectra @ 6 W and 35^o C Case Temp



Laser Model #'s I0976MB4000M & I0976MB6000M



**Laser Locked with No Side-Modes Over
Entire Range From 15^o C – 55^o C**

Laser Model #'s I0976MB4000M & I0976MB6000M

