



1W-100 nm Semiconductor Optical Amplifier

Maximum Performance together with -Master 1040

- **Wide Band Gain** : 980~1090nm (>20dB)
- **High Power Output** : ~1W (@ 2.0 A)
- **High Beam Quality** : M^2 : <1.1
- **Stable Fiber Coupling** : > 50% for 980~1090nm
 - **Polarization Ratio** : > 100 / 1
- **Auto Power Control** : vs time & λ -sweep
- **External Modulation** : up to 20 kHz



Spectra Quest Lab. Inc

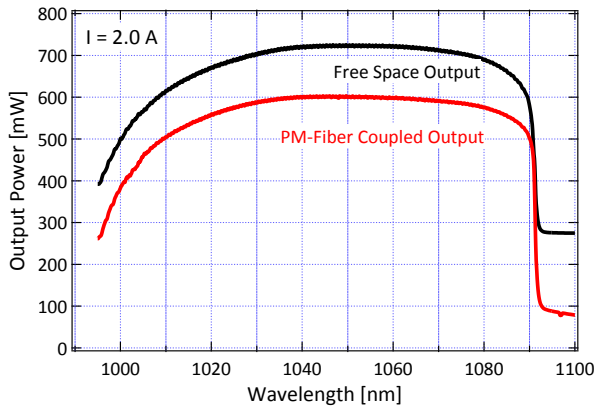
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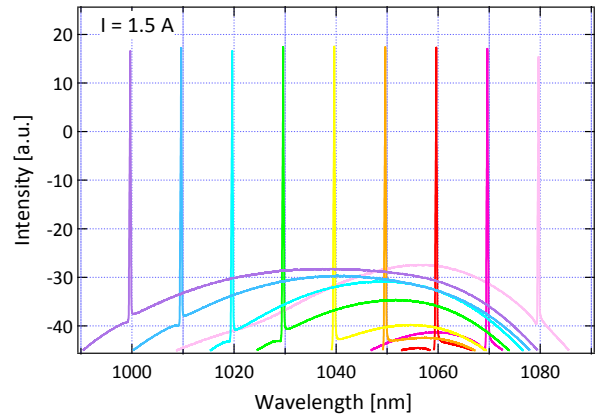
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<http://spectraquestlab.com>

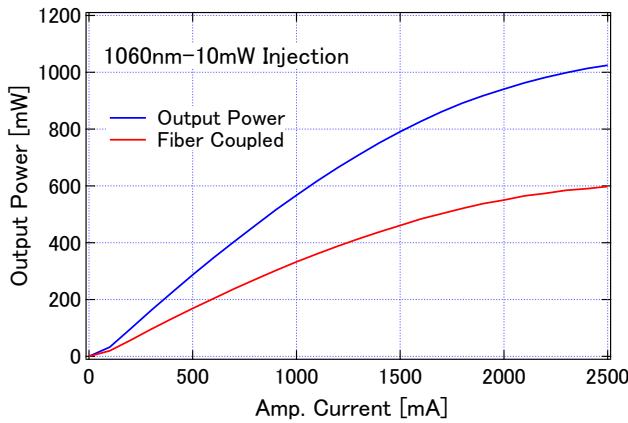
* These figures show typical data, not the guaranteed performances.



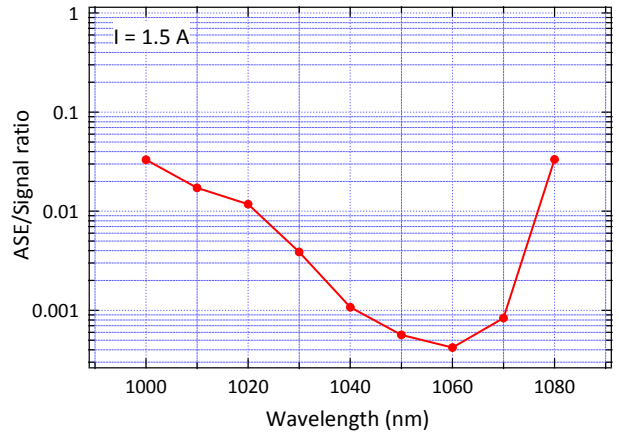
High Power & Wide Band Output



Output Spectra



Stable Fiber Coupling



ASE Background

Specifications	λ-Amp 1040	Comments
Gain Band (>20dB)	980~1090nm	920~1000nm is also available , λ-Amp 950
Input Beam	1~100mW	PM Fiber Input with FC/APC Connector
Max. Output Power	> 1W (>700mW)	without Isolator (with Isolator)
Output Beam Size	2.5x2.5mm ²	nearly circular
Narrow Band Fiber Coupling	> 80%	any wavelength (no Dispersion Compensation)
Broad Band Fiber Coupling	> 70%	980~1090nm, with Dispersion Compensation
Optical Isolation	>25dB	Narrow- or Broad- Band Isolator is available
APC Control	1~100% of Full Pow.	
Maximum Current	2000mA	
Typical Dimension	90x120x280mm ³	Length changes with contents
Typical Weight	2kg	Weight changes with contents

* Specifications may change without notification.