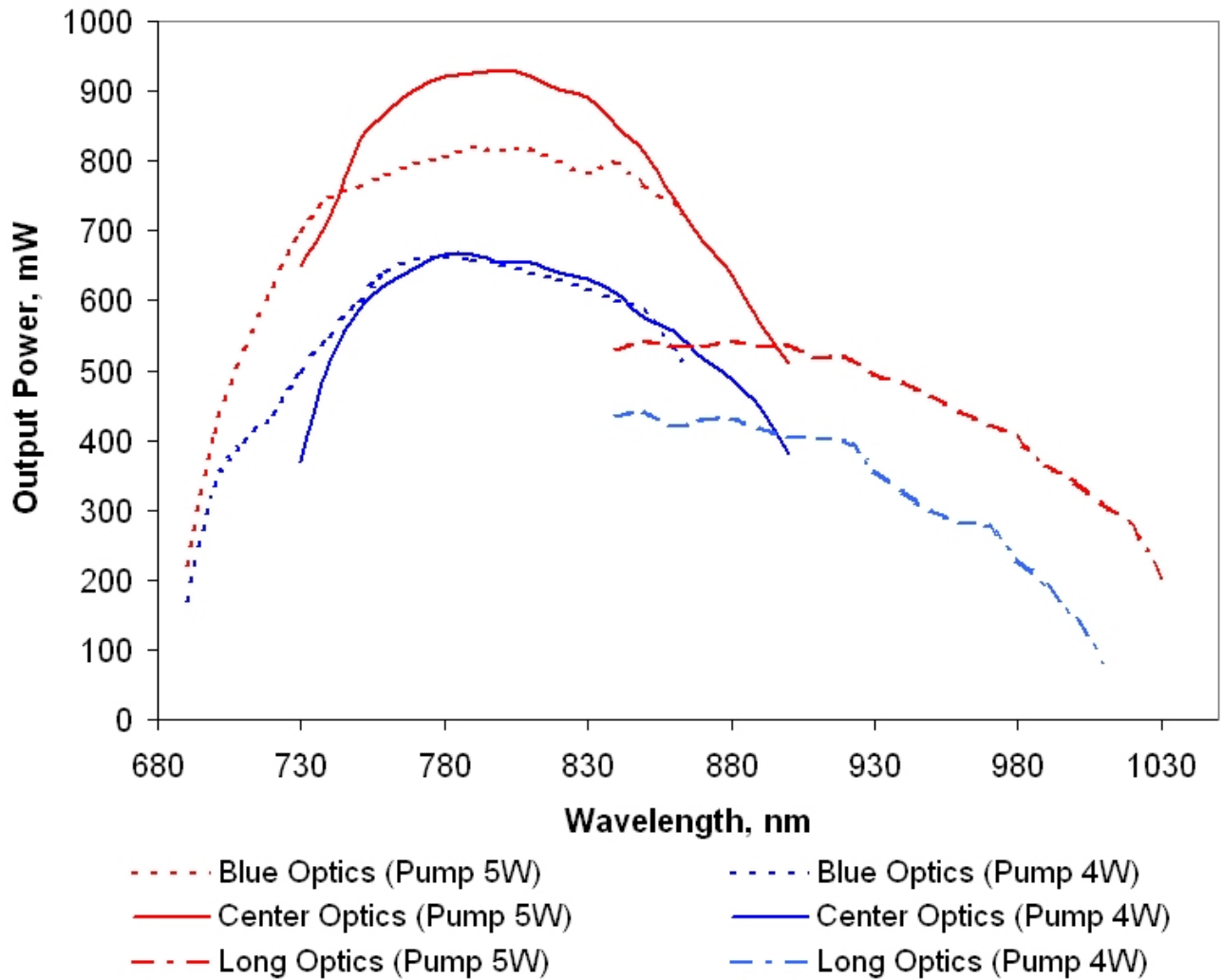


Test data for Tunable Titanium : Sapphire CW Laser (TiC S/N 0T00075)

Tuning ranges of the laser with different sets of optics*



NOTES

* The tuning curves were obtained with etalons installed.

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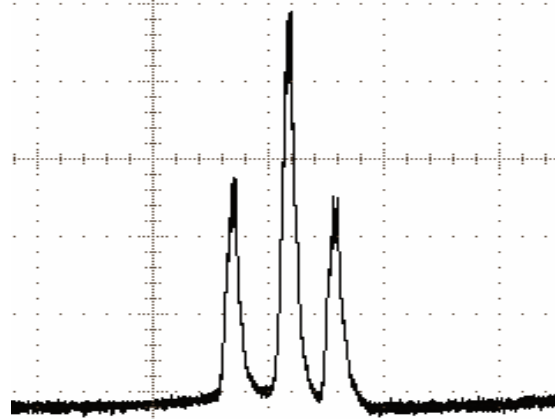


MAR PHOTONICS

Linewidth

Optionally, thin and thick etalons can be installed in the cavity for narrowing and fine tuning of the laser. Laser with filter only has linewidth less than 40 GHz. With one thin etalon less than 20 GHz, with thin and thick etalons less than 2 GHz (usually 2-3 longitudinal modes).

Oscilloscope image obtained by Fabry-Perot scanning interferometer.



3 longitudinal modes

Output Characteristics

Output Characteristics¹	Specifications	Typ. measured values Date of measuring: 12.07.2007 Laser serial number: S/N 0T00075
	5W pump	5W pump
Average Power²	800 mW at 800nm	900 mW at 800nm
Tuning Ranges	690-865 nm; 730-900 nm; 830- 1050 nm	690-865 nm; 730-900 nm; 830- 1050 nm
Linewidth	<40 GHz <20 GHz with Thin Etalon ; <2 GHz with Thin + Thick Etalons	<40 GHz <20 GHz with Thin Etalon ; =0.7 GHz with Thin + Thick Etalons
Noise	< 1%	< 0.7%
Power Drift³	< 3%	< 2%
Spatial Mode	TEM ₀₀	TEM ₀₀
Polarization	>100:1 Horizontal	>100:1 Horizontal

NOTES

1. Because of our continuous product improvement program, specifications may change without notice. Current specifications only apply in full when the laser is pumped by Laser Quantum Finesse solid state laser or Verdi/Millenia class laser.
2. Power specified using the appropriate pump laser.
3. For a 2-hour period after 1-hour warm up and less than +/-3° temperature change.

Dimensions

