

Widely Tunable Pulsed Ti:Sapphire Laser Model CF 125



- High Efficiency
- Built-in SHG
- Wide tunable range with single cavity optics set

Features

- ◆ The wide tunability range is provided with use of a single set of mirrors consisting of a rear mirror and an output coupler.
- ◆ The high conversion range to second harmonic radiation is ensured by employment of a nonlinear BBO crystal.
- ◆ The design and optic schematic of the laser permit its adaptation to virtually any pump laser.
- ◆ PC-controlled operation can be available upon request.

Specifications

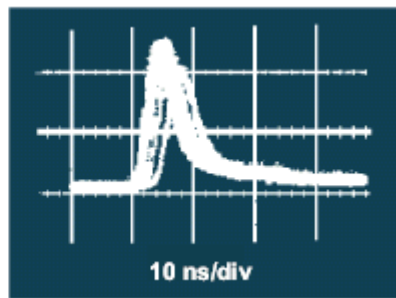
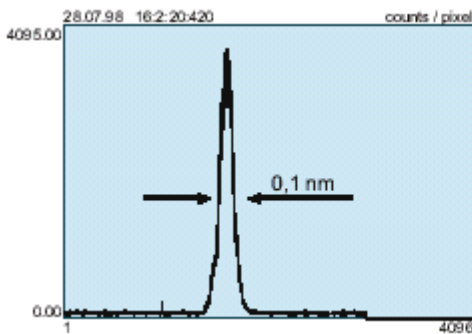
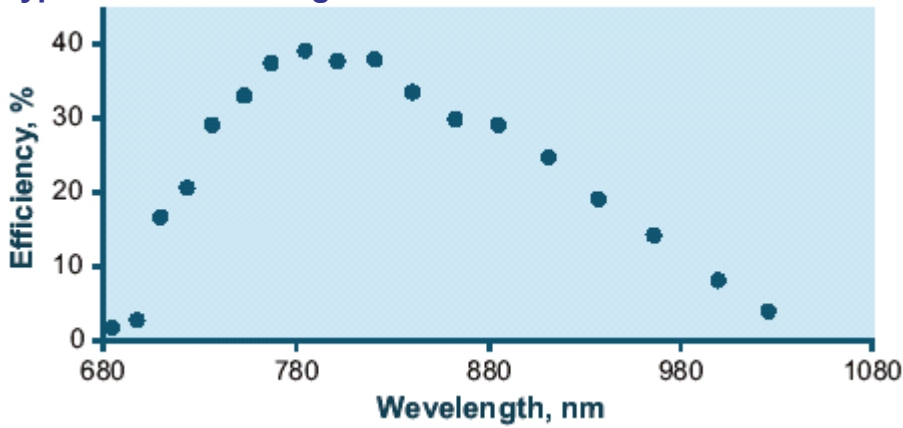
TUNABLE LASER PARAMETERS

Active Medium:	Ti:Sapphire
Tuning Range	
at fundamental:	690 - 1000nm
at second harmonic:	350 - 500nm
Pump conversion efficiency at the peak of tuning curve	
at fundamental:	≤25%
at second harmonic:	≤8%
Linewidth:	0.1 – 0.2nm
Beam Divergence	< 1.5 mrad
Overall size (LxWxH):	538 x 150 x 72 mm
Weight:	6.5kg

PUMP PARAMETERS

Wavelength:	532nm
Pulse Energy (max):	300mJ
Pulse Duration:	8-20ns
Power (max):	15W
Pulse Repetition Rate (max):	50Hz
Beam Diameter (max):	9mm

Typical CF125 Tuning Curve



Typical CF 125 line shape and temporal profile in the maximum of the tuning curve. Timing jitter – less than 10ns with pump laser pulse to pulse stability 2%.

Dimensional Drawing

