

WIDELY-TUNABLE PULSED Ti:SAPPHIRE LASER



Widely-Tunable Pulsed Ti:Sapphire Laser

MODEL
CF 125

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

- ◆ 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 efficiency 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

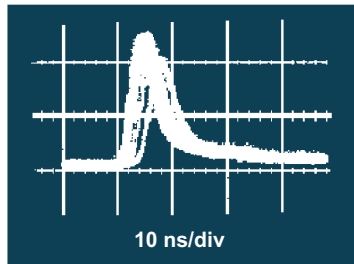
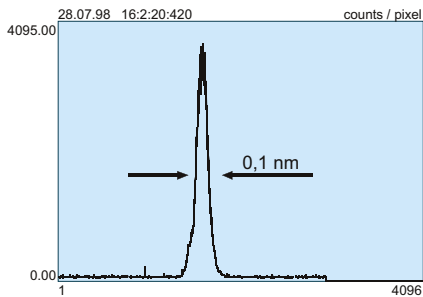
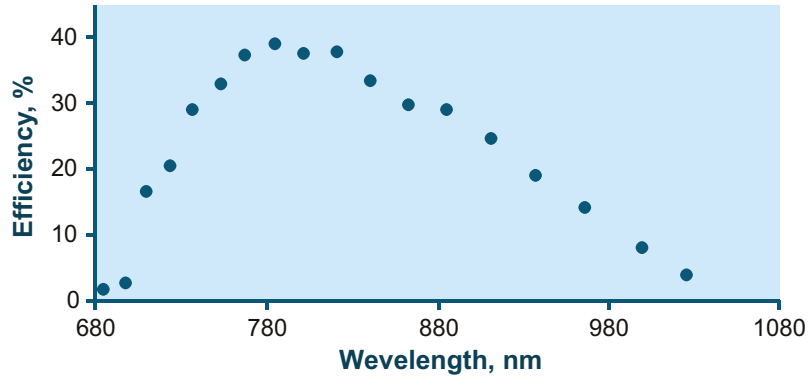
Active medium:	Ti:Sapphire
Tuning range	
at fundamental:	690-1000 nm
at second harmonic:	350-500 nm
Pump conversion efficiency in the maximum of tuning curve	
at fundamental:	$\leq 25\%$
at second harmonic:	$\leq 8\%$
Linewidth:	0,1-0,2 nm
Beam divergence:	$< 1,5$ mrad
Overall size (LxWxH):	538x150x72 mm
Weight:	6,5 kg

PUMP PARAMETERS

Wavelength:	532 nm
Pulse energy (max):	300 mJ
Pulse duration:	8-20 ns
Power (max):	15 W
Pulse repetition rate (max):	50 Hz
Beam diameter (max):	9 mm

Widely-Tunable Pulsed Ti:Sapphire Laser, Model CF125

Typical CF125 Tuning curve



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

DIMENSIONAL DRAWING

