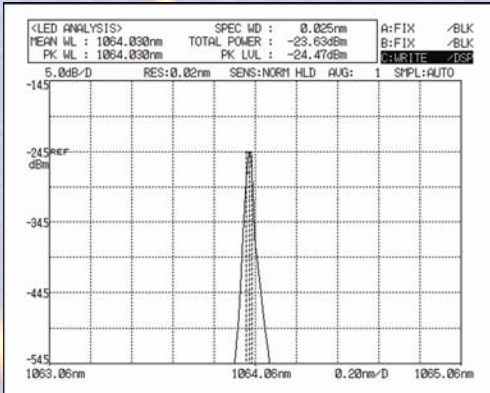


FIBER LASER SEEDS

IPS utilizes a unique technology known as spectrum stabilization to assemble a Hybrid ECL (HECL). This technology allows us to manufacture extremely stable single frequency seed lasers that can be operated in CW mode or pulsed at very high speed – generating exceptionally high peak power levels. These sources are becoming the industry standard for fiber and solid-state laser seeding applications and are available in several configurations and at a wide variety of wavelengths.

HIGH POWER PULSED SEEDS:

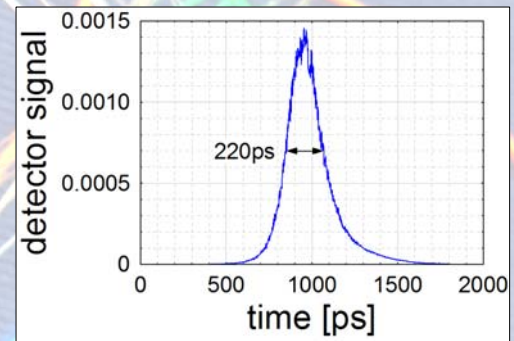


Typical 1064 nm Spectral Plot (Scanning OSA)

- Designed for Pulsed or CW Operation
- Pulse Width <math>< 220\text{ ps}</math>
- 120 mW and 300 mW CW (1 – 3 W Peak)
- PM Fiber Coupled
- High Speed RF Package Option

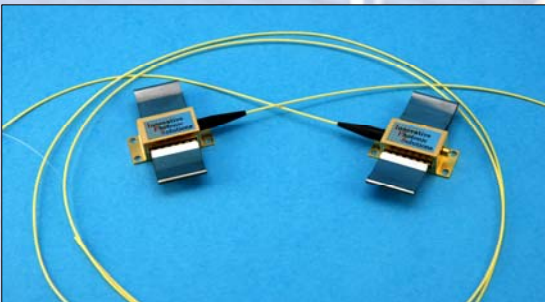
IPS high power pulsed seed sources are ideal for use in high peak power pulsed fiber laser systems. Although the seeder is very narrow linewidth, the capability to over-drive the laser to obtain very high peak power levels make these devices better solutions than traditional DFB lasers when SBS is a concern. These sources, in coordination with IPS's line of spectrum stabilized core and cladding pumps, offer fiber laser manufacturer's with a unique technological approach to push the limits on their high peak power pulsed fiber laser systems.

IPS currently offers 2 different models. The 120 mW unit is designed for very rapid pulsing, while the 300 mW version is designed for maximum peak power and may allow manufacturers to eliminate one of their amplifier stages.



Gain Switched Pulse

ULTRA-STABLE CW SEEDS:



- Designed for High Performance CW Operation
- Ultra-Low Phase Noise
- Spectral Linewidth $\ll 1\text{ MHz}$
- Integral Dual Stage Isolator

IPS's ultra-stable seed sources are ideal for CW seeding of both fiber and solid state laser systems. With instantaneous spectral linewidth of $\sim 100\text{ KHz}$ and low phase noise, these sources offer superior reliability and performance and are ideal for use when system requirements call for ultra stable and precise wavelength control. IPS can custom manufacture these lasers to meet your exacting wavelength specifications.

We currently offer our seeders at 1053 nm, 1058 nm, 1062 nm, 1064 nm, 1064.4 nm, 1068 nm, 1074 nm, 1546 nm, 1547 nm, 1548 nm, 1550 nm. Custom wavelengths are also available.