High Extinction Nanosecond Pulse Source

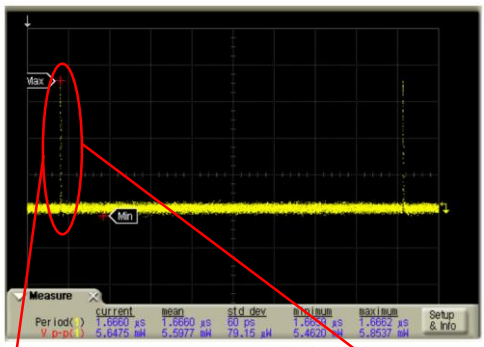
Pilot Photonics' nanosecond pulse source is based on a single mode laser with an integrated pulse carver. It offers a high temporal extinction ratio optical pulses with no pulse pedestals, ideal for applications such as time of flight LIDAR. The device can be provided as in a TO-Can, TOSA, or in a high-speed butterfly package, with reference design for integration into customer electronics.

Features

- High pulse to pulse uniformity and stability
- Wavelength in the C-band
- Peak power > 6 mW
- High temporal extinction ratio > 27 dB
- Selectable repetition rate
- TO-Can, TOSA, or butterfly packaged with integrated TEC, thermistor and isolator

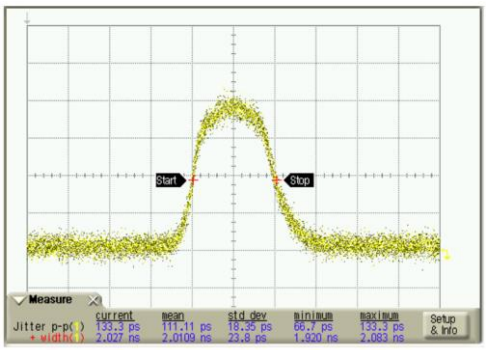
Applications

- Time of flight LIDAR
- Fiber amplifier seed laser
- Optical time domain reflectometry
- Time resolved spectroscopy



Time (200 ns/div)

Typical Pulse Train



Time (1 ns/div)

Typical Pulse Shape

Typical Specifications

Wavelength Availability	C-band (1535 – 1565 nm)
Peak Power	min. 6 mW
Pulse Width (FWHW)*	2 ns /others on request
Repetition Rate	600 kHz /others on request
Jitter	135 ps
Temporal Extinction	min. 27 dB
Spectral Width	0.09 nm (20 dB)

*Custom specs on request

Coming Soon – OEM module

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