

Find out more about us at
www.ampliconyx.com

GS PICOSECOND LASER AMPX-GSL-1040

APPLICATIONS

SEEDING OF FIBER LASER AMPLIFIERS

SCIENCE

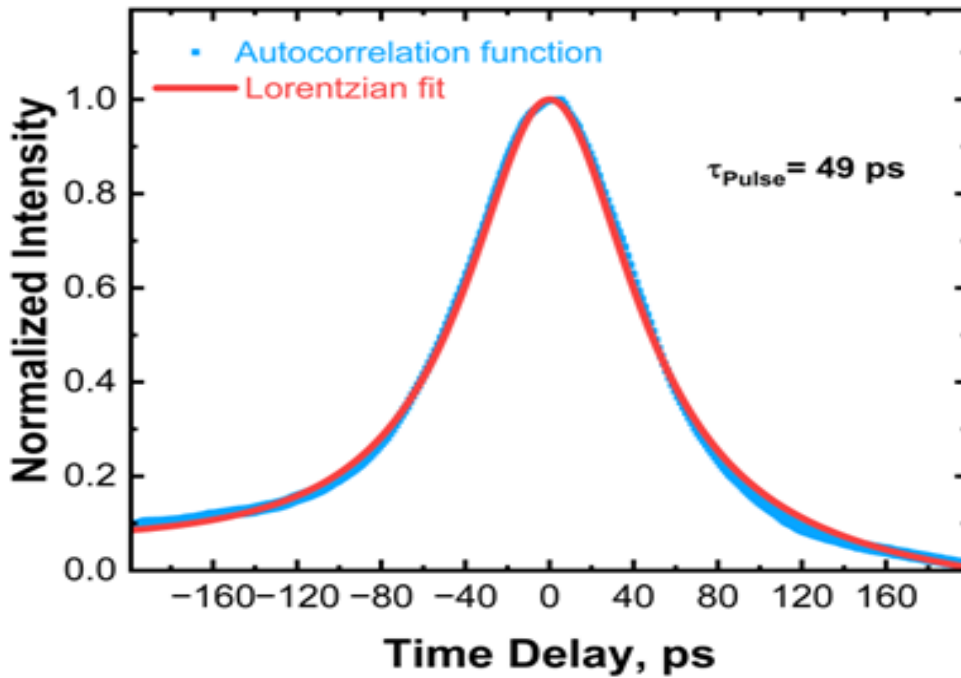
SENSING

SPECTOSCOPY

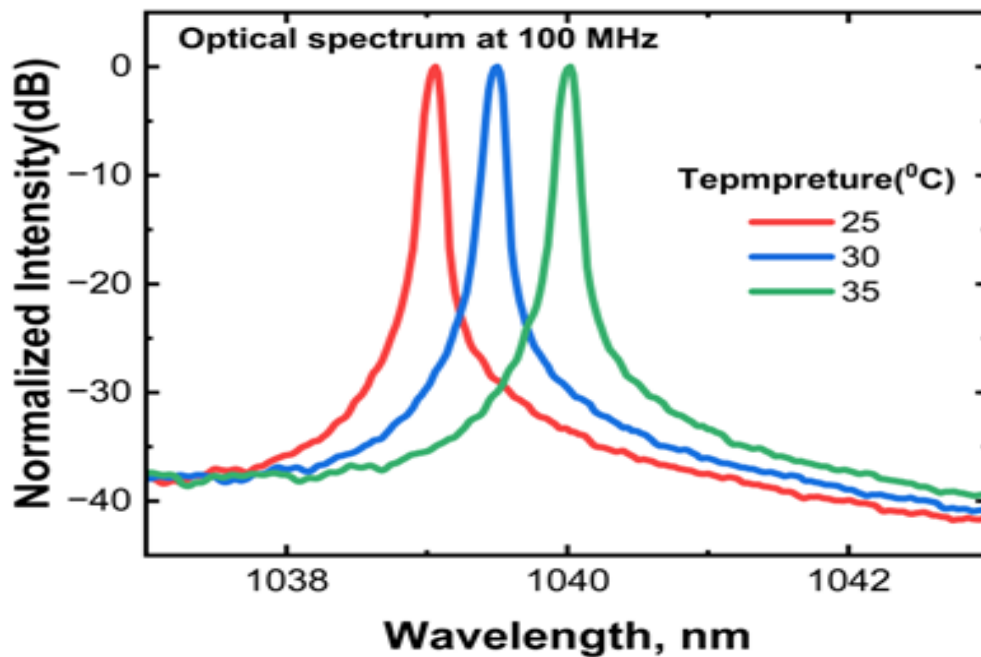


KEY FEATURES

- 50 ps pulse duration with peak power of >100 mW
- Wavelength 1030, 1040 or 1064 nm
- Adjustable repetition rate (single shot to 100 MHz with 1 Hz step)
- Narrow linewidth
- Linear polarization
- Trigger output for pulse synchronization
- External and internal trigger input



Typical autocorrelation trace of AMPX-GSL-1040-50-100-PM-FCA



Optical spectrum of AMPX-GSL-1040-50-100-PM-FCA at 100 MHz

DIMENSIONS

SPECIFICATIONS,
DIMENSIONS

Main specifications

PARAMETER	UNIT	VALUE	COMMENTS
Central wavelength	nm	1030±1, 1040±1, 1064±1	Other wavelengths available on request.
Pulse duration	ps	50±5 ps	
Repetition rate	MHz	Single shot to 100 MHz, with 1 Hz step	Burst mode operation by external trigger input.
Spectral bandwidth @ 3dB (FWHM)		<100 pm	
Average power	MHz	10 µW @ 1 800 µW @ 100	
Peak power		>100 mW	
Polarization type		Linear, PER>18 dB	
Output fiber		PM980 or single mode fiber	FC/APC connector or other connectors on request
Beam quality		M2<1.1	

Power requirements

PARAMETER	UNIT	VALUE	COMMENTS
Voltage, V		DC 12±1	
Current, max, A		3	
Recommended AD/DC converter		SMI36-12-V-P5 (CUI Inc.)	
Connector part number		PJ-002A (Same Sky)	
Mating connector		PP3-002A (Same Sky)	
Pinout		1 – positive; 2,3 – negative	
Power consumption		36 W	

Laser dimensions & Control interface

PARAMETER	UNIT	VALUE	COMMENTS
Laser dimensions	mm	120x110x38,5	
Laser weight	kg	0.75	
Control interface		Isolated USB and CAN	

USB interface

PARAMETER	VALUE
Connector	61400416121 (Würth Elektronik)
Connector type	Type B
Interface type	Isolated 1000V

Synchronization connectors

CONNECTOR	TYPE
Connector	731000114 (Molex)
Trigger input	3.3/5V tolerant, 50 Ohm
SyncP Output	Rise indicates start of emission
SyncN Output	Rise indicates end of emission
SyncP, SyncN voltages	3.3V, 50 Ohm internal resistance

Interlock and CAN interfaces

PARAMETER	VALUE
Connector	1803293 (Phoenix Contact)
Mating connector	1803594 (Phoenix Contact)
Pinout	1 – CANH; 2 – CANL; 3 – Int; 4 – GND
Interlock type	Input, connect to GND for operation


info@ampliconyx.com

www.ampliconyx.com