



# GFT300

## Sub-Nanosecond Pulse Stretcher

### Features

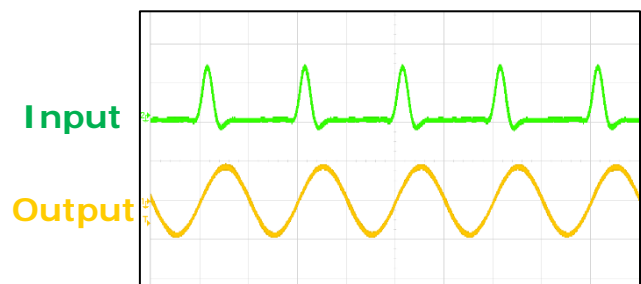
- Input:  
Amplitude: 100 mV to 1V,  
Width > 500ps  
Repetitive rate: 40 to 100 MHz
- Two outputs:  
Form: Sinus  
Level > 100 mV  
Impedance: 50  $\Omega$
- Operates from standard 12V AC/DC adapter

### Applications

- Synchronizing pulse and delay generator
- Control timing of Picosecond Laser System
- Laser Diagnostics
- R/D experimental application



GFT300 module



(10 ns/DIV)

Typical Input / output signal

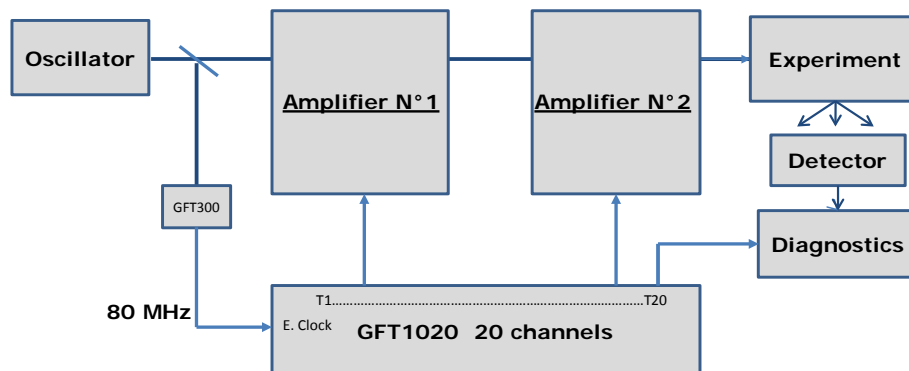
### Description

The GFT300 is the ideal module to stretch a short pulse or a low amplitude pulse to provide a pseudo sinus signal, useful for analog function or numerical function lock.

The GFT300 module delivers two signals: Signal Out and Monitoring.

The GFT300 Out signal can be used for synchronizing Greenfield Technology delay generators or Timing System. The GFT300 Monitoring output can be connected to a digitizer or oscilloscope to control the quality of the signal.

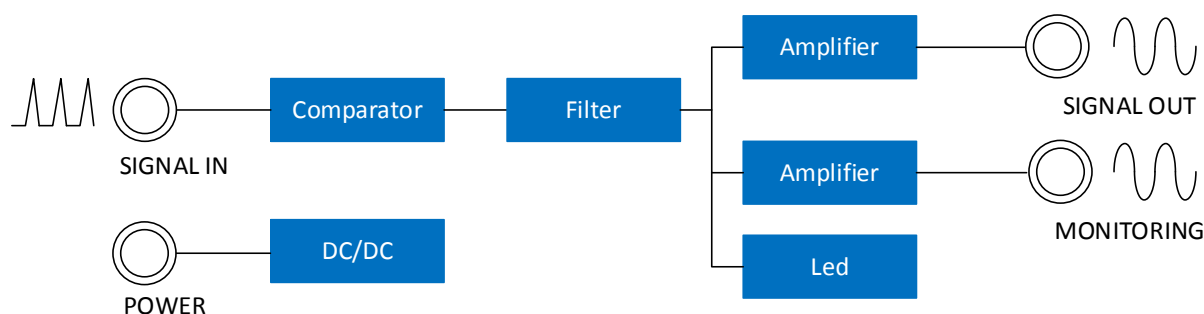
Typical GFT300 application would be to control the timing of a Picosecond Laser System. The GFT300 receives a short pulse from pick-up diode and provides an 80 MHz time base to the GFT1020 20 channels pulse and delay generator able to select pulse at up to 10 KHz (or one pulse for diagnostics)



Typical application in Picosecond Timing System

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*Block diagram*

### Specifications

Input (Signal In)		
	Amplitude	100mV to 1V
	Internal terminaison	50Ω
	Width	> 500ps
	Repetitive rate	80MHz
	Connector	BNC
Outputs (Signal Out & Monitoring)		
	Form	Sinus
	Amplitude	> +/- 50mV
	Gain	
	External load	50Ω
	Jitter rms	< 50ps rms
	Connector	BNC
General		
	Led	Light when the output delivers more than 100mV
	Size	106 x 47 x 31mm
	Power	V/A 12V / 200mA max.
	Connector	Jack 5.5mm
	Led	Green (trigger)
	External AC/DC adapter for power supply + 12V	
Configuration		
Input Frequency	Between 40 to 100 MHz – ask to the factory	