



# GFT101 Electrical to Optical Converter

## FEATURES

- 2.5 to 10V input pulse
- 1 ns output Rise time
- 1310 nm output wavelength
- 30 ps rms jitter
- Directly connectable to device output

## APPLICATIONS

Laser research  
EMC simulators  
High voltage breakdowns  
High-Energy physics  
Picosecond timing



## DESCRIPTION

The GFT101 module is designed to convert fast electrical pulse to a fast optical pulse of 0.3 mW. This compact module, directly connectable to device BNC output, combines with GFT200 is ideal to transmit pulse to remote location. The Primary applications are when the critical pulse has a high common mode voltage with respect to the measurement equipment. These applications are in Laser research, EMC simulators, High voltage breakdowns and High-Energy physics.

## SPECIFICATIONS

### Input

Pulse	Positif
Amplitude	2.5 to 10 V under internal 50Ω
Rise time	< 1 ns
Width at A/2	> 250 ns
Frequency	100 KHz maximum
Connector	BNC

### Output

Pulse	Positif ( same shape as input pulse)
Power	0.2 mW min, 0.3mW typical @ 10V
Rise time	< 5 ns
Width at A/2	> 250 ns (same as input pulse)
Wavelength	1310 nm
Gigue RMS	< 100 ps + Fiber optic cable + GFT200
Connector	SC/PC with plastic shutter

### General

Power	without
Size	H=26, L=35, P=100
Operating temperature	0 to 40 °C
Option	Others wavelength and connector type are available