

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



GFT101 Electrical to Optical Converter

DESCRIPTION

The GFT101 module is designed to convert a fast electrical pulse to a fast optical pulse of 0.3 mW. Directly connectable to BNC output, this compact module combined with the GFT200 module, is ideal to transmit pulses to a remote location up to 1 km. 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	Positive
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	Positive (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	No power required
Size	H=26, L=35, P=100 (mm)
Option	Others wavelengths and connector types are available