



GFT101

Electrical to Optical Converter

Features

- 2.5 to 10 V Input Pulse
- 1 ns Output Rise Time
- 1310 nm Output Wavelength
- 30 ps rms Jitter
- Directly Connectable to Device Output



GFT101 Module

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 0.3mW. 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.



Typical application

Specifications

Input	
Pulse	Positive
Amplitude	2.5 to 10 V under internal 50 Ω
Internal termination	50 Ω
Threshold	> 1.5 V
Rise time	< 1 ns
Width at A/2	> 250 ns
Repetitive rate	100 kHz (max.)
Connector	BNC
Output	
Pulse shape	Positive (same shape as input pulse)
Power	0.2 mW min, 0.3 mW typical @ 10 V
Wavelength	1310 nm +/- 10 nm
Rise time	< 2 ns
Width (FWHM)	> 250 ns
Insertion Delay	< 5 ns (input to output)
Jitter	< 50 ps RMS + Fiber optic cable + GFT200
Connector	SC/PC with plastic shutter
General	
Size	26 x 35 x 100mm
Power V/A	Without
Option	
<u>Option 1</u> : Others wavelength: 850 or 1550 or customs wavelength	
<u>Option 2</u> : Others connector: FC/PC, ST, ...	

Input / Output



REF	Description
1	Input signal: BNC connector
2	Output signal: SC/PC connector

Ordering information

GFT101 module part numbering is:
 GFT101-X-X (Where "X" is option number)