

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



Applications

- Laser Research
- EMC Simulators
- High Voltage Breakdowns
- High-Energy Physics
- Picosecond Timing



GFT101 Module

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

GFT101 Electrical to Optical Converter

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)