

GFT200 Optical to Electrical Converter

FEATURES

- Wavelength: 1310 to 1550nm
- Optical Threshold: 20 μ W
- 30ps RMS jitter
- 10V under 50 Ω output pulse
- Compact module

APPLICATIONS

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



GFT200 module

DESCRIPTION

The GFT200 module converts optical pulse to a fast electrical pulse of 10 volts under 50 Ω . This compact module combined with GFT 101 (Electrical to optical converter) is ideal to transmit pulse to remote location up to 1 Km and when the critical pulse has high common mode voltage with respect to the measurement equipment.



Typical application

SPECIFICATIONS

Input

Max optical power	1mW
Optical Threshold	20 μ W \pm 10 μ W
Wavelength	1310 to 1550nm
Frequency	100kHz maximum
Connector	SC-PC

Output

Pulse	Positive and rectangular
Amplitude	10V
External load	50 Ω
Rise time	< 2ns
Width at A/2	> 200ns
Jitter	< 30ps RMS
Connector	BNC

General

Size	65 x 35 x 20 mm
Operating temperature	15 to 35 $^{\circ}$ C
Power	V/A
Connector	Jack diameter 1.3 mm
Indicator	Lights on when a pulse is detected.

Option

01	Input Wavelength: 850nm
02	Optical connectors type: FC, ST
03	External AC/DC power supply 100-240VAC in / 12V DC, 1A out