



GFT500

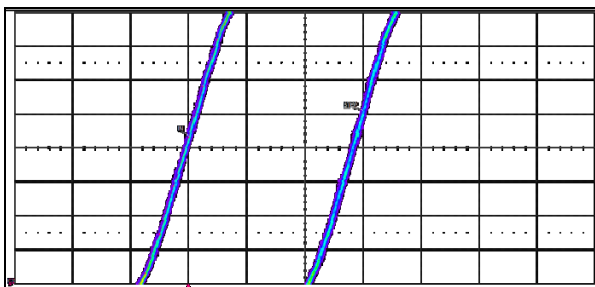
200ps Step generator module

Features

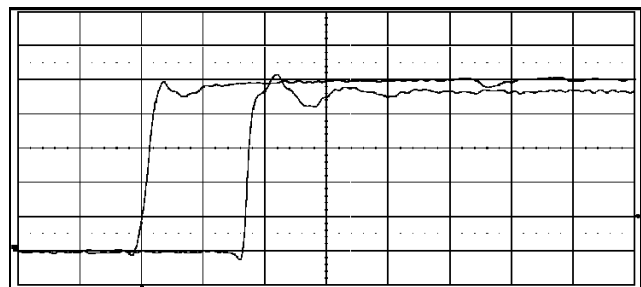
- Output Step pulse
 $< 200 \text{ ps}$ (20% to 80%) rise time
 $< 2 \text{ ps}$ RMS jitter
 4 to 9 V amplitude under 50Ω
- External trigger input
- Operates from standard 12V AC/DC adapter

Applications

Fast trigger
 Semiconductor device testing
 Analysis of system in the time domain



*10mV/div and 100ps/div
 Step pulse jitter: typical 0.7ps RMS(1)*



*2V/div and 2ns/div
 Step pulse Leading edge (1)*

(1) (the input trigger is the left signal)

Description

The GFT500 module is an external triggered fast leading edge step generator. This compact module produces up to 9V under 50Ω , fast 200ps rise time step pulses.

The output amplitude can be adjusted (Trimpot) in factory

The GFT500 can be used with Greenfield Technology delay generator to generate a very fast rise time.

Spécifications

Input trigger

| | |
|----------------------|-------------------|
| Amplitude | $> 2 \text{ V}$ |
| Internal terminaison | 50Ω |
| Rise time | $< 5 \text{ ns}$ |
| Threshold | +1.5V |
| Width | $> 10 \text{ ns}$ |
| Repetition rate | Up to 50KHz |
| Connector | SMA |

Output

| | |
|------------------------|------------------------|
| Pulse | Square, AC coupled |
| Amplitude | 4 to 9 V +/- 0.5 V |
| External load | 50Ω |
| Rise time (20% to 80%) | 200 ps |
| Jitter RMS | $< 2 \text{ ps}$ |
| Width | Follows the input +5ns |
| Connector | SMA |

General

| | |
|-----------|-----------------|
| Size | 47 x 34 x 17 mm |
| Power V/A | 12 V / 300 mA |
| Connector | MCX |

Option

External AC/DC adapter for power supply