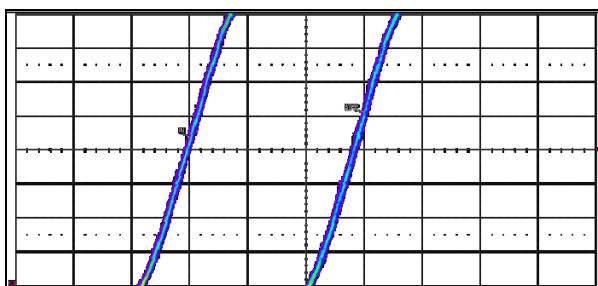


Features

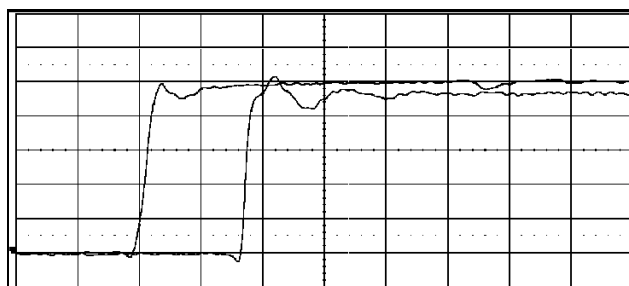
- Output Step pulse
 $< 200 \text{ ps}$ (20% to 80%) rise time
 $< 2 \text{ ps}$ RMS jitter
4 to 9 V amplitude under 50Ω
- External trigger input
- Operates from standard 12V AC/DC adapter

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 Model 745 Series delay generator to generate a very fast rise time.

Specifications

Input trigger

Amplitude	$> 2 \text{ V}$
Internal termination	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