

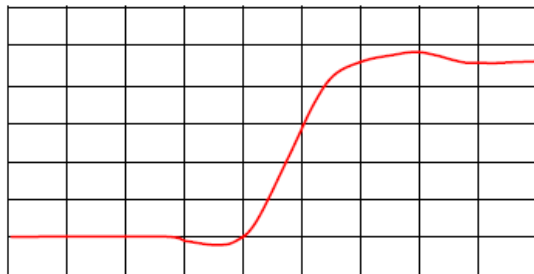
### FEATURES

- Output step pulse  
 $< 200$  ps (20% to 80%) rise time  
 $< 2$  ps RMS jitter  
 5 V amplitude under  $50 \Omega$   
 100 ns width
- External trigger input  
 $+ 1.5$  V Threshold
- Operates from 12 V AC/DC adapter

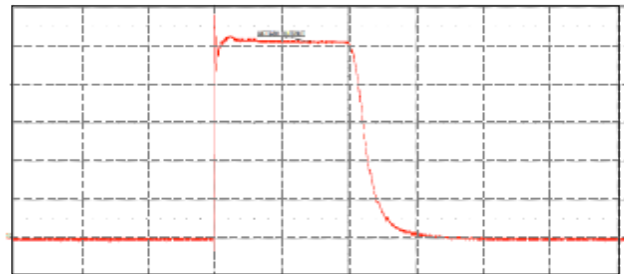


### APPLICATIONS

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



1 V/div and 200 ps/div  
 Step pulse rise time: typical 180 ps (20% - 80%)

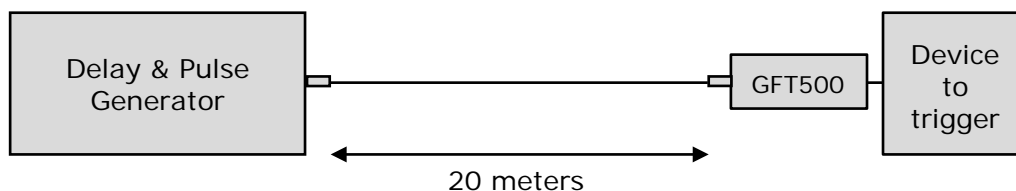


1 V/div and 50 ns/div  
 5 V Step pulse global aspect

### DESCRIPTION

The GFT500 module is an externally triggered fast leading edge step generator. This compact module produces step pulses of 5 V under  $50 \Omega$ , with fast 200 ps rise time. The amplitude and width of Output step pulse are factory adjustable between 4 V to 9 V and 50 ns to 1  $\mu$ s.

Typical GFT500 application would be to generate a very fast leading edge from the output of Greenfield Technology pulse/delay generator (GFT1004, GFT1504 or GFT1020). In this way the module can be at 20 meters from delay generator and near the device to trigger.

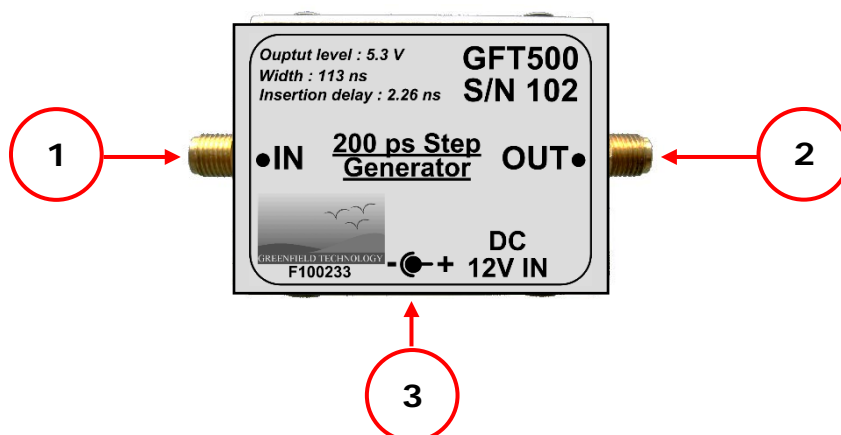


*Typical application*

### SPECIFICATIONS

Trigger Input	
Amplitude	> 2 V
Internal termination	50 Ω
Rise time	< 5 ns
Threshold	+1.5 V
Width	> 10 ns
Repetition rate	Up to 50 kHz
Connector	SMA
Step Output	
Pulse	Square, AC coupled
Amplitude	5 V typ. (factory adjustable between 4 to 9 V)
External load	50 Ω
Rise time (20% to 80%)	< 200 ps
Jitter RMS	< 2 ps
Width at A/2	100 ns typ. (factory adjustable between 50 ns to 1 μs)
Connector	SMA
General	
Size	47 x 34 x 17 mm
Power V/A	12 V / 50 mA max.
Power connector	MCX
External 12 V AC/DC adapter for power supply furnished	
Option	
-01	Amplitude from 4 V to 9 V; adjustable in factory
-02	Width from 50 ns to 1 μs : adjustable in factory

### INPUT /OUTPUT



### Connectors

Ref	Description
1	Trigger Input signal : SMA connector
2	Step Output signal : SMA connector
3	Power +12 V input : MCX connector