GFT632
32V Output Module for Digital Delay Generator

FEATURES

• Output pulse 32V amplitude under 50Ω, < 3ns rise time
• 1µs Width, < 2 ps RMS jitter
• External Trigger Input
• Operate from standard 12V AC/DC adapter
• Options 15 to 70 V amplitude, 50 ns to 1 µs width

APPLICATIONS

• Components Test
• ATE Application
• Precision Pulse Application

(10V/div, 200ns/div)
Amplitude = 70V width=1µs
Tr=1.2ns, Tf =14ns

10V/div, 20ns/div
Amplitude = 32V, width= 50ns
Tr=1ns, Tf =11ns
Module Description

The externally triggered module is a pulse generator up to 70V. This compact module produces square pulses up to 70V into 50 Ω with fast 2ns rise time.

The output amplitude is factory adjusted from 15V to 70V. The output width is also factory adjusted from 50ns to 1µs.

Typical applications include amplifying the output of the BNC digital delay generator. The module can be up to 20 meters from the DDG and nearer the device to be triggered.

Specifications:

<table>
<thead>
<tr>
<th>Input</th>
<th>Output</th>
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<tbody>
<tr>
<td>Amplitude Positive &gt; 2 V</td>
<td>Pulse shape Rectangular</td>
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<tr>
<td>Internal impedance 50 Ω</td>
<td>Amplitude 32 V +/- 0.5 V</td>
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<tr>
<td>Rise time &lt; 5 ns</td>
<td>External load 50 Ω</td>
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<tr>
<td>Threshold + 1.5 V</td>
<td>Rise time &lt; 2 ns</td>
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<tr>
<td>Width &gt; 10 ns</td>
<td>Fall time &lt; 15 ns</td>
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<tr>
<td>Repetitive rate 10 KHz (max.)</td>
<td>Width (FWHM) 1 µs +/- 5%</td>
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<tr>
<td>Connector BNC</td>
<td>Insertion Delay &lt; 5 ns</td>
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</tbody>
</table>

General Options

- Size: 106.0 x 38.5 x 31.6 mm
- Power V/A: 12 V / 200 mA max.
- Connector: Locking Power Jack
- Leds: Green (power), yellow (trigger)
- External AC/DC adapter for power supply + 12 V