HL9201 Triggerable Impulse Generator (50 ps)

The HL9201 triggerable impulse generator module generates a short positive going output pulse for every positive going transition of the input signal.

Each pulse has a wide spectrum in the frequency domain extending into the Ultra Wide Band (UWB) communication region (1-10 GHz).

Features and Technical Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Rise Time</td>
<td>50 ps, typical</td>
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<tr>
<td>Fall Time</td>
<td>50 ps, typical</td>
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<tr>
<td>Pulse Width</td>
<td>70 ps, typical</td>
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<tr>
<td>Output Amplitude</td>
<td>2 V min. into 50 Ω load</td>
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<tr>
<td>Triggering Rate</td>
<td>10 Hz to 50 MHz</td>
</tr>
<tr>
<td>Trigger Input</td>
<td>0 to +5 V Schmitt Trigger at +2 V</td>
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<tr>
<td></td>
<td>1 kOhm / 20 pF</td>
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<tr>
<td>Jitter</td>
<td>3 ps RMS max. at input slew rate &gt; 10 mV/ps</td>
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<tr>
<td>Connectors</td>
<td>Input: 1 x BNC jack</td>
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<tr>
<td></td>
<td>Output: 1 x SMA jack</td>
</tr>
<tr>
<td>Power Supply</td>
<td>Min. +7 V DC, Max. 200 mA from +9 V Adapter (center pin positive)</td>
</tr>
<tr>
<td>Temperature</td>
<td>0° to 40° C, operating</td>
</tr>
<tr>
<td></td>
<td>-10° to +50° C, storage</td>
</tr>
<tr>
<td>Dimensions</td>
<td>5.8&quot; x 2.44&quot; x 1.48&quot;</td>
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<tr>
<td></td>
<td>147.3 x 61.9 x 37.6 mm</td>
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<tr>
<td>Weight</td>
<td>7.05 oz., 200 g</td>
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Deployment Notes

This product is a direct replacement for our discontinued HL9200 Triggerable Impulse Generator, and is suitable for all of the same applications.