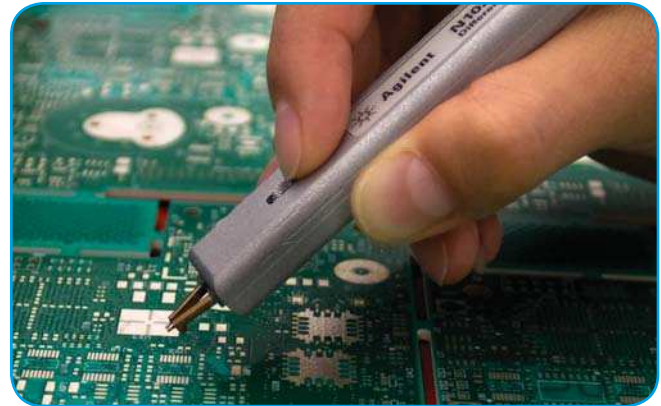




Agilent N1021B 18 GHz Differential TDR Probe Kit

Get connectivity to printed circuit boards and other devices without connectors

- **Shorten design cycles: Characterize differential impedances including return and insertion losses**
- **Get better insights: display results in the time domain (impedance profiles) or frequency-domain (SDD11, SDD21)**
- **Control processes: Maintain consistent quality in printed circuit board and passive component manufacturing**



The Agilent N1021B TDR 18 GHz differential TDR probe kit connects printed circuit boards and other devices without connectors to the 54754A differential TDR/TDT module in the 86100C Infiniium DCA-J wideband oscilloscope mainframe. In conjunction with these hardware components, engineers can use the optional 86100C-202 enhanced impedance and S-parameter software to accurately characterize differential impedances in the time- and frequency domains (for example, reflections and impedances versus time or distance, or magnitude/phase/group delay of S-parameters like SDD11/SDD21).

Superior Probe Usability:

- Differential probe body. The tips move independently in order to make good electrical contacts even if the probe is not held perfectly perpendicular.



- A light, ergonomic design combined with flexible cables feels comfortable even when used extensively.
- The slim body and the extended tips provide good visibility of the target.



- Hardened tips ensure many touchdowns. Their small diameter and chamfered design make good contact even on small pads or traces.
- A thumb wheel allows pitch adjustments with just one hand.



Key Characteristics/Features:

- Bandwidth 18 GHz
- 100 Ohm nominal differential impedance
- Variable tip spacing: 0.5mm-2.54mm
- Spring loaded probe tips with independent Z-axis movement

N1021B Kit Content:

- Differential TDR Probe Body
- Matched Cables – 1 m (N1021-60003)
- 2 Male Shorts (0960-0055)
- 2 Male Loads (1810-0118)
- 2 F-F Adapters (1250-1666)
- 1 Adapter to positioners (N1021-60008)
- ESD Wrist Band (9300-0980)
- ESD Wrist Band Cord (9300-0980)
- ESD/EOS Labels - Multi-lingual
- Custom Storage Box

Part numbers in parentheses also available as spare items from www.agilent.com (search for "Parts").



Agilent Technologies

Based on the industry-standard 86100C Infiniium DCA-J Oscilloscope platform Agilent's TDR/TDT solutions provide major benefits:

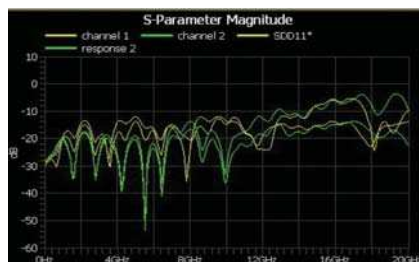
- **Ease of use:** Visual on-screen guides help occasional users to make good measurements without slowing down power users



- **TDR calibration:** TDR calibration based on shorts and loads improves accuracy by de-embedding the cable losses between instrument and the DUT.
- **Variable risetime:** TDR calibration also allows users to mathematically decrease the effective risetime to less than 20 ps or increase it up to 1 ns in order to match the edge speeds of the target application.



- **Live S-parameter:** Magnitude, phase and group delay are live onscreen – no external SW required. Any changes or DUT tuning can be instantly observed.



Other TDR/TDT Accessory:



86100C-202 Enhanced Impedance and S-Parameter Software



N1020A 6 GHz Single-ended TDR Probe & Positioner



N1024B Cal Kit (for DUTs with SMA/3.5 mm connectors)

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