



Agilent N1020A TDR Probe

Product Overview

The Agilent N1020A TDR Probe is a useful accessory when making time domain reflectometry measurements on printed circuit boards. If no convenient method of connection is available, such as an SMA launch, then probing is the only viable solution. While most test engineers are very creative in designing and building the appropriate test fixture for each individual application, the Agilent TDR Probe is an off-the-shelf solution. The benefits are:

- Stable and accurate measurements
- Reliable and repeatable positioning
- Wide bandwidth characteristics
- Faster setup than X-Y-Z positioners
- Minimizes damage to components
- Intuitive probing method

When used in conjunction with the Agilent 86100 Series Infiniium DCA (Agilent 54750 or 83480), it provides X, Y and Z positioning in one fluid motion. It's unique 3-D joystick has a 3:1 motion reduction with a fully articulating arm and allows simple positioning in any-thing from card cages to microstripline. If your test tasks get you into some tight spots, the TDR probe gives you a hands-free solution.



The tip of the Agilent TDR Probe incorporates a novel variable pitch, spring-loaded ground pin. The spring-loaded feature enables compensation of different height ground and signal contacts. This will easily accommodate manufacturing tolerances of standard printed circuit board probing pads.

A linear pattern on the probe tip allows a variable ground pitch between 0.060" and 0.200" in 0.010" increments. The ground pin can be easily removed and replaced by the user with the supplied extraction tool. The versatility of this variable ground allows fast set up for different applications. No switching between probes or soldering fixtures is necessary.



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Supplemental Characteristics

- Weight: 1.3 kg
- Joystick travel: 17 x 17 x 13 mm
- Arm reach: 100 to 220 mm
- Arm sweep angle: +90 degrees
- Probe pitch: 1.5 to 5.0 mm
- Bandwidth: DC to 6 GHz
- Insertion loss: <1.5 dB
- Return loss: >16 dB
- Connector: SMA 3.5 mm



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