



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.



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



For more information on Agilent Technologies' products, applications or services, please contact your local Agilent office. The complete list is available at:

www.agilent.com/find/contactus

Americas

Canada	(877) 894-4414
Latin America	305 269 7500
United States	(800) 829-4444

Asia Pacific

Australia	1 800 629 485
China	800 810 0189
Hong Kong	800 938 693
India	1 800 112 929
Japan	0120 (421) 345
Korea	080 769 0800
Malaysia	1 800 888 848
Singapore	1 800 375 8100
Taiwan	0800 047 866
Thailand	1 800 226 008

Europe & Middle East

Austria	43 (0) 1 360 277 1571
Belgium	32 (0) 2 404 93 40
Denmark	45 70 13 15 15
Finland	358 (0) 10 855 2100
France	0825 010 700*
	*0.125 €/minute
Germany	49 (0) 7031 464 6333
Ireland	1890 924 204
Israel	972-3-9288-504/544
Italy	39 02 92 60 8484
Netherlands	31 (0) 20 547 2111
Spain	34 (91) 631 3300
Sweden	0200-88 22 55
Switzerland	0800 80 53 53
United Kingdom	44 (0) 118 9276201
Other European Countries:	

www.agilent.com/find/contactus

Product specifications and descriptions in this document subject to change without notice.

October 1, 2009

© Agilent Technologies, Inc. 2010
 Printed in USA, June 3, 2010
 5968-4811E