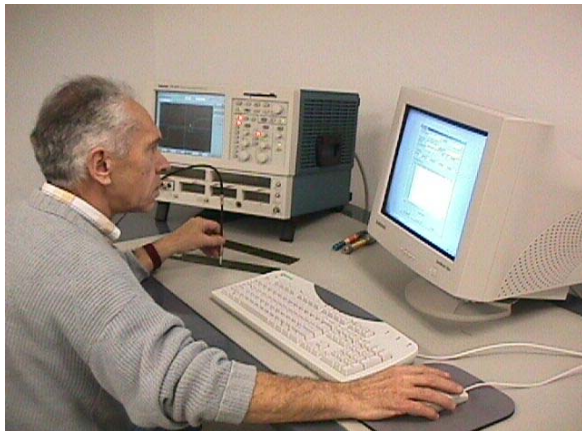


The ACCU-Prober™ is the answer for controlled impedance testing!

It's perfect for coupons, samples, prototypes and 100% testing of batch jobs. Computer guidance software, automatic test results storage, test failure alerts and results reporting locally or over a network make ACCU-Prober™ easy to learn & operate, very efficient and highly cost effective. ACCU-Prober™ meets all industry standards.



ACCU-Prober™ System

ACCU-Prober™ Results

All test results are stored in a relational database (SQL Server) for local or remote access. The data results can be correlated by

- Time of tests
- Test operator
- Location of tests
- Customer
- In-process or final
- Serial number
- Test facility
- Job or work order

ACCU-Prober™ Benefit Highlights

- Best accuracy and precision of any manual technique
- Computer guidance reduces complexity of testing operations and training
- Visual pass/fail graphic indicators
- Easy to use documentation
- Flexible report creation
- Tracking of jobs, part numbers, tests & more
- Compliant with industry test standards

ACCU-Prober™ Test Suites

Single-ended and Differential Measurements for:

- Mean/Min/Max Impedance
- Propagation Delay & Velocity
- Effective Dielectric Constant (Er)
- Equivalent Bandwidth (Interconnect Loss)
- TDR Waveforms
- Quick-Test (no setup necessary)
- Configure and Run (download CAD/CAM files, guides operator to test points, and more)

Step	Board #	Net Name	Min Ohms	Mean Ohms	Max Ohms	Prop Delay	Er
1	1	Layer1	66.08	68.43	69.68	750	4.66
2	1	Layer3-75	66.42	68.18	69.45	913	4.64
3	1	Layer1-50	45.8	47.05	47.91	750	4.66
4	1	Layer3-50					

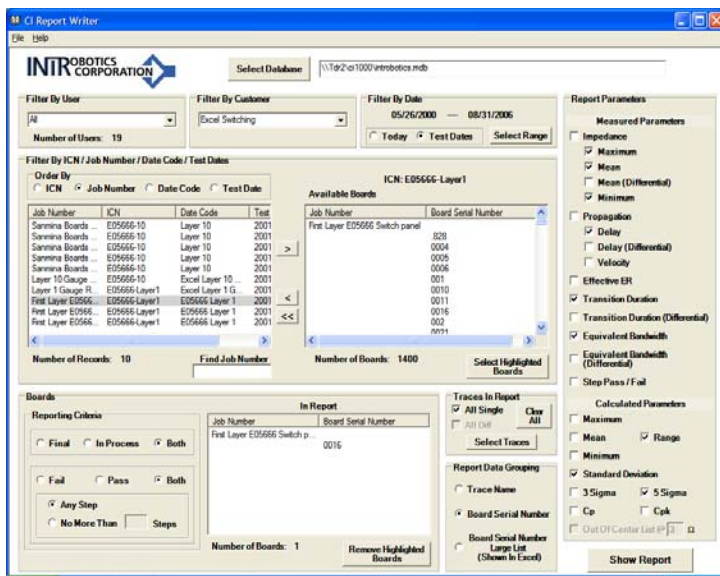
Test Results Screen

Experts in High Frequency Test and Measurement of PWB

CI Report Writer

Reports can be generated locally or sent over the net. Extensive data sorting capability is provided to support process analysis. Hardcopy printouts and electronic outputs are available in the following formats:

- Word, Excel, Adobe Acrobat (.pdf), Comma separated files (.csv), SQL Query (database format), Rich Text Format (.rtf)



Print Report Selection Screen

Industry Test Standards Compliant

- TM-650 2.5.5.7 (IPC-2141)

Looking for a solution for high volume, production controlled impedance testing? The Introbotics CI-1000 and the HFT-1500 are 10x faster than a hand probe tester, and achieves payback within 9-12 months.

ACCU-Prober™ Capabilities

Quick-Test capability is used for in-process checks and engineering or customer verification. Numerical impedance results and TDR waveforms are generated.

Configure and Run capability enables a standard or custom test specification with guided steps or imported CAD/CAM file. It guides the operator through each point to be tested. Test coupons (pre-routed or in-panel), panels, or individual boards can all be accommodated.

Differential Measurements are provided by the simultaneous generation of coupled TDR pulses. This simple, very effective technique provides true differential measurement. The probe calibration procedure eliminates probe-induced errors.

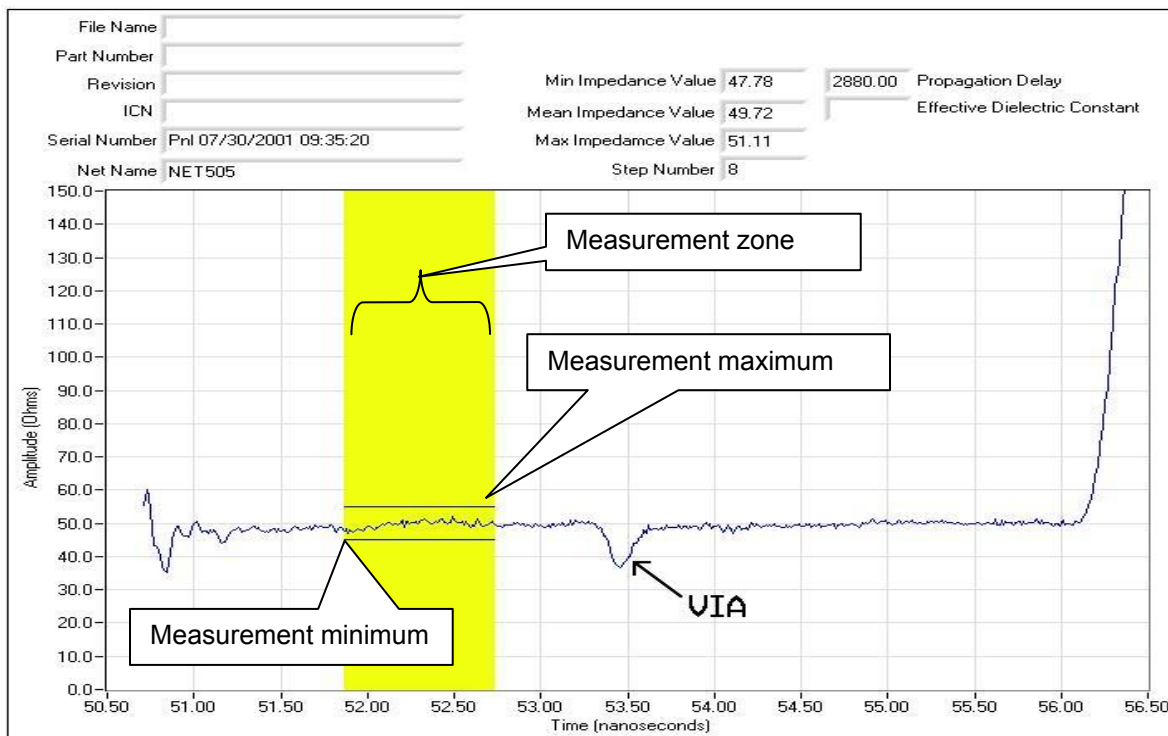
Measurement Automation accuracy is ensured by taking of up to eight (8) measurements per test point. Automatic fault detection notifies the operator to re-probe. Measurement automation ensures a very repeatable measurement process.

Intranet Network Support provides access to the test database, all reports and results and the WaveForm Viewer. CAD/CAM data can be downloaded to the ACCU-Prober™ to set up the computer guidance screen and set all test parameters. CI Report Writer and Waveform Viewer screens can be viewed and sent through your network.

Experts in High Frequency Test and Measurement of PWB

ACCU-Prober™ Waveform Viewer™ (Waveform Capture)

TDR waveforms can be captured for each test point, viewed off-line, and sent electronically to your engineers or customers. The Waveform Viewer allows easy selection of the impedance measurement zone and dynamically recalculates impedance for each selected zone. The Viewer displays controlled impedance, propagation delay, and dielectric constant information for each trace. End and midpoint VIA affects are displayed and a dynamic cursor provides readouts of impedance along the entire trace. Printouts can be produced for documentation purposes.



Waveform Viewer™ Display



Accu-Prober™ Probe Tip

Introbotics' patented probe tip is rugged and has extremely high-performance electrical characteristics. The 33 psec rise and 78 psec fall times gives trace resolution as short as 1/2" and as long as 100 ft.

ACCU-Prober™ Options and Specifications

ACCU-Prober™ System:

Hardware:

1. TDR Unit
2. Probe(s)
3. Coaxial Cables
4. Static Isolation Unit

Software Suite (1 license each):

1. ACCU-Prober Software
2. WaveForm™ Viewer
3. CI Report Writer
4. CI CAM Importer

Options:

- Introbotics Single-end Probe (specify pitch)
- Introbotics Differential Probe (specify pattern)
- Flexible Probe Cable(s)
- Semi-rigid Probe Cable
- Airline Calibration assembly
- Torque Wrench

Specifications:

System Rise/Fall Times:	33 psec rise time, 78 psec fall time
Shortest Measurable Trace Length:	0.5"
Longest Measurable Trace Length:	100 feet
Impedance Accuracy:	<0.1 ohms
Repeatability:	0.05 ohms (standard deviation)
Propagation Delay Accuracy:	TDR Jitter: 1 psec ±5PPM of position TDR Horizontal Accuracy: 1 psec ±1% of the interval
Probe Connections:	Two (2), 3.5mm connectors (SMA compatible)
Temperature	
Operating:	+10°C to +40°C
Storage:	-22°C to +60°C
Relative Humidity	
Operating:	20% to 80% at or below 40°C
Storage:	5% to 90% at or below 60°C
Power Requirements:	
Line voltage Ranges:	90-132 VAC, 180-250 VAC
Line Frequency:	48-440 Hz

Do you have a requirement for high volume, controlled impedance testing? Consider Introbotics' CI1000 Controlled Impedance tester or HFT-1500! These automated machines combine the speed and accuracy of a robotic system with the same precision as the ACCU-Prober™.

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