FaultFinder VIP

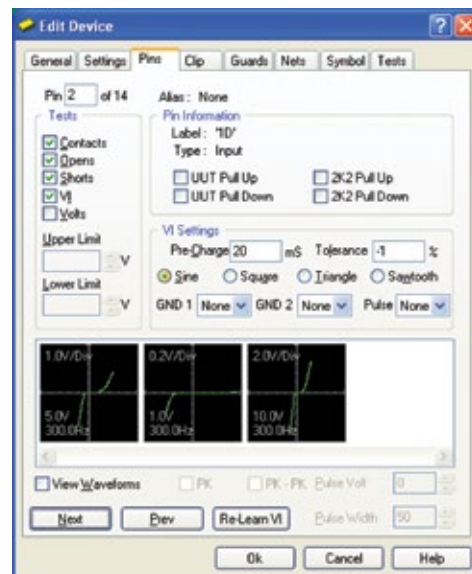Rapid troubleshooting of PCBs in a portable unit for fault finding in and out of the workshop

Rapidly identifies the cause of faults on a PCB

The compact and portable Faultfinder VIP system, combined with a Laptop running TestVue software, provides a way to rapidly identify failures by troubleshooting a PCB or CCA. It uses impedance signatures (also known as VI testing) measured from a known working circuit and stores them as a test program. These stored signatures are then compared to the ones being measured on the suspect circuit to automatically determine if there is a fault.

The technique does not require any knowledge of the function of the circuit and is a power-off test technique. It is therefore a safe and rapid way to test a circuit when there is no test information available.

Portable and Compact

The FaultFinder VIP performs exactly where you need it: in the lab, in the repair center or even in the field. Simply connect the unit to a local PC, laptop or network via a USB 2.0 connection and you have a small compact, network capable test system with 192 channels.

KEY BENEFITS

- Proven Impedance Signature method to locate digital and analog faults
- No need for schematic diagrams or board knowledge
- Auto-learn of known good board
- Quick to learn and intuitive graphical interface
- Built-in libraries with device symbols
- Interactive live mode or automatic program
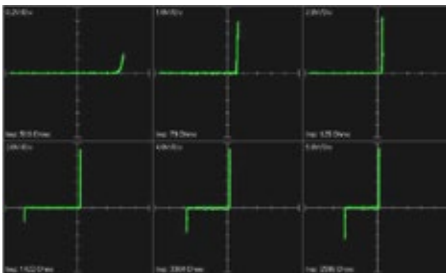- Fault identified to network level

Quick and Safe Fault Finding

Finding PCB faults quickly, when speed is imperative, FaultFinder test program software guides you to the exact point of failure, utilizing impedance signature analysis, FaultFinder provides a completely safe method of test for newly manufactured or in-service boards.
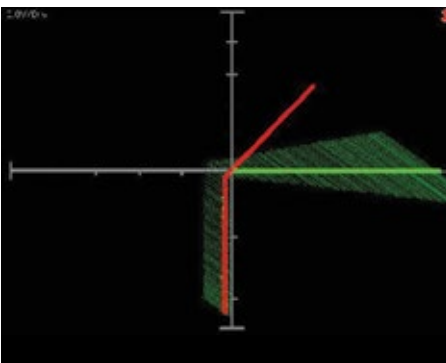
Rapid Program Creation

FaultFinder VIP provides a completely safe method of test for either newly manufactured or in-service boards.

Featuring a comprehensive Auto Learn process, test programs are generated in minutes. Simply select the node to be learned and FaultFinder automatically selects the best voltage and frequency test waveforms for optimum results, storing these signatures for comparison, or as part of a simple automatic test program.

V/I Signatures

Example of a V/I Trace

- Green trace represents the good board measurement
- Green shading represents the acceptable tolerance limits
- Red trace shows a faulty board reading

Specifications

- 2 VI Channels plus Common / 2 Pulse Channels plus Common
- 96 channels as standard and can be extended to 192 channels as an option
- USB 2.0 communication
- 256 point, 8 bit Comparison architecture
- Fully flexible inter-pin shorting algorithms
- Pulse mode for gate fired devices
- Waveforms: Sine, Square, Triangle & Ramp
- Current Ranges: Current limited to less than 200 mA peak

- 16 Resistors selectable across all Voltage and Frequency Ranges
  » Resistor values: 10R, 20R, 50R, 100R, 200R, 500R, 1K, 2K, 5K, 10K, 20K, 50K, 100K, 54R, 1K21 & 26K7
- Frequency Ranges:
  » 5, 15, 25, 50, 150, 300, 750, 1500Hz
  » 5 Hz to 1.5KHz, 0.1 Hz resolution
- Voltage Ranges
  » 0.2 Volt to 25 Volt Peak
  » Voltage ranges are user adjustable in software with a resolution of 0.1 Volt
  » Default Ranges: 1, 5, 10, 15, 20 & 25 Volts

ORDERING INFO

For additional details, please contact Astronics Test Systems.

12889 Ingenuity Dr.,
Orlando, FL 32826 USA
+1.407.381.6062
ATSsales@astronics.com
AstronicsTestSystems.com