Abrel Products

Bibtest55XL

Burn-in Board Test System

Key Features

Technology

- 256 basic channels
- Expandable to 2048 Channels
- 4 wire Kelvin measurements
- Windows based software

Program

- Edge, pin and leakage netlists
- Zoned board programming
- Learn of known good board
- Universal edge adapter
- Windows editing commands

Testing

- Board Map or scroll test option
- Autotest or manual test modes
- Socket pass/fail indication
- History of pass/fail data
- Built in database for BIB log
- Integrated faultfinding tools

2048 Channel Test System

Product Highlights

Overview

The Bibtest55XL is the market leading burn-in board test system. The system is extremely accurate and is designed to electrically test any style or configuration of burn-in board. Using 4-wire technology the system will fully test a burn-in circuit, including resistance, capacitance, diodes, transistors, shorts, opens and leakage paths.

Operating Principle

The basic system has 256 channels, which can easily be expanded to a maximum of 2048 channels, using 'plug and play' expansion modules. Each channel can be programmed on the fly as force, sense, leakage, stimulus or driven guard. The test system includes a control PC and features a windows based operating software with an on-line database.

Utilities

Bibtest55XL also features built-in enhancements including Autocalibration module, Tone Ohm fault diagnostic tool, Integrated DMM and Self test utilities.

Enhanced Features

Increased test speeds—up to 100 parts/sec. Active stimulus for transistors / FETs. Socket latching to display pass/fail pins. SPC data gathering for BIB life expectancy. Enhanced leakage measurements. New board programming menus. Compliant with all MIL and automotive requirements for BIB testing.

Bibtest55XL

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advanced burn-in and reliability

Summary System Specifications

Resistance Measurement

Range	Accuracy	Resolution
1R - 24R	0.1%	.01R
24R - 240R	0.1%	.1R
240R - 2.4K	0.1%	1R
2.4K - 24K	0.1%	10R
24K - 240K	0.1%	100R
240K - 2.4M	0.2%	0.1M
2.4M - 24M	0.2%	0.1M

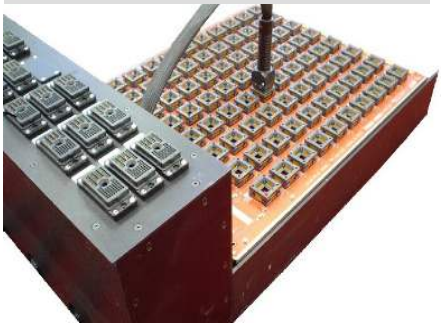
Capacitance Measurement

Range	Accuracy	Resolution
10pf - 12nf	5.00%	1pf
12nf - 120nf	5.00%	1nf
120nf - 12uf	5.00%	1nf
12uf - 120uf	5.00%	0.1uf
120uf - 1.2mf	5.00%	1uf
1.2mf - 12mf	5.00%	0.1mf

Leakage Measurement

Range	Accuracy	Resolution
1nA - 240nA	0.5%	1nA
240nA - 2.4uA	0.5%	0.1uA
2.4uA - 24uA	0.5%	0.1uA

Personality Modules



Diode Measurement
(Standard and Zener)

Range	Accuracy	Resolution
0-19 volts	1.0%	0.1V

User Defined Part (UDP)

Range	Accuracy	Resolution
0-9 volts	1.0%	0.1 v

Stimulus Voltage

Range	Accuracy	Resolution
0-8 volts	1.0%	0.1V

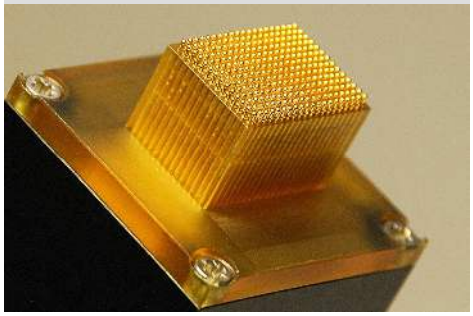
Tone Ohm

Range	Accuracy	Resolution
0.2R-20k	1.0%	1.0%

Measurement Limits

Range	Accuracy
Short Circuits	1R - 50 R
Open Circuits	1K - 21M
Lower Cap	10pf - 50nf

Test Probes



Hardware Features

Channel Configuration
256 basic channels on entry level system
128 block channel 'plug and play' upgrades
Maximum number of channels 2048

Programming
Edge to Pin for standard testing
Edge to Edge for edge verification
Pin to Pin for internal connections
Pin to Edge for bi-directional testing
Leakage test for open circuit verification

Utilities
4-wire Kelvin measurements
Test speed up to 100 components per second

Software Features

Programming
Window based spreadsheet programming
5 net-list options for comprehensive testing
Each channel can be programmed force or sense
Driven guard on every channel
Each channel can be a stimulus voltage
Look up table for edge and pin labelling
Autolearn of known good circuit or board
Up to 5000 netlist entries

Testing
Board map or scroll test options
1st socket test for common components
Zone board testing capability
Database for test result storage
Tone Ohm BIB fault diagnostic tool

System Configuration

Measurement Currents
10mA, 1mA, 0.1mA, 0.01mA and 0.50uA

Control PC
2.5Ghz processor, 10Gb HD,
17" LCD display, Windows 10

Power Requirements
110/220 volts, 50/60Hz, single phase, 5amps.

Specifications subject to change without notice

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