



# Robson Technologies, Inc.

## 950 Series Benchtop Test Fixtures

### Overview:

The 950 series test fixture is a motherboard-daughter card design featuring a universal test fixture base that's compatible with interchangeable daughter cards. It allows for topside and back-side test of devices with <100 leads and can regulate operational temperature of the DUT during test when used with an RTI temperature controller.

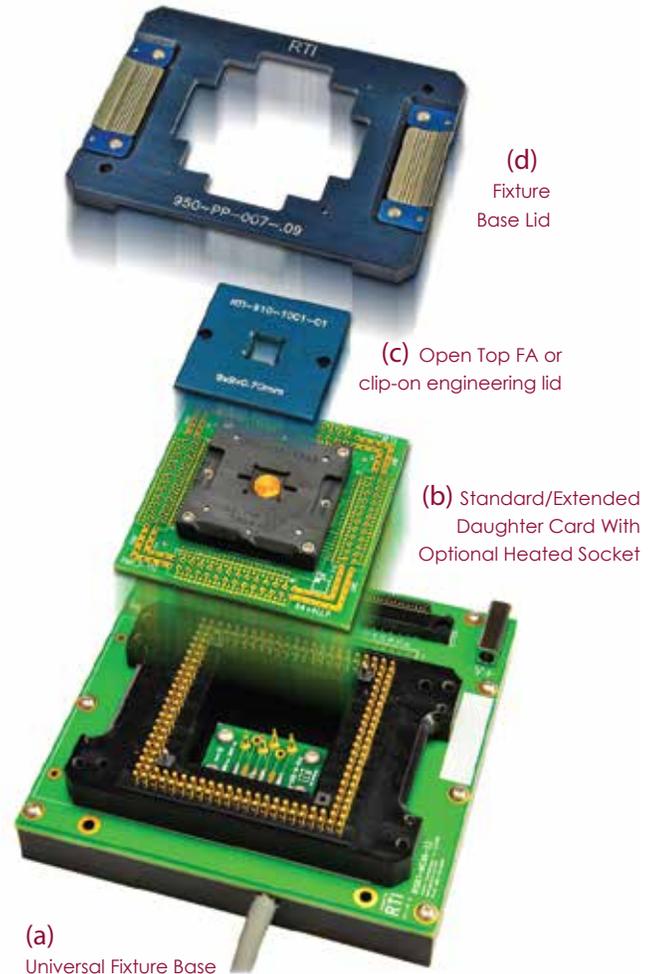
The 950 fixture's low profile design makes it useful in micro-probing, backside emission microscopy, liquid crystal testing, and other FA applications. A complete unit consists of a universal fixture base (a), a universal mini card and test socket (b), a dedicated FA or Eng socket lid (c), and a fixture base clip on or screw down lid (d).

The 950 fixtures use a 100-pin Yamaichi connector to interface to RTI's switch / break-out boxes, RTI's and third party curve trace systems, functional test systems, and other common FA test equipment. An optional bottom-side

### 950 Series Daughter Cards:

The value of the 950 series comes from the customizable FA test sockets and standard/extended daughter cards which incur lower NRE when compared to designing a complete breakout test fixture. The daughter card assembly interfaces through a pogo pin block or ZIF socket interface to the 950 standard fixture bases. Fixture bases designed for backside testing will interface with "Backside Test specific" daughter cards only.

Provisions for filter capacitors are also included. Extended daughter cards can also be used as stand alone break out boards for bench testing or as a direct interface to the device under test.



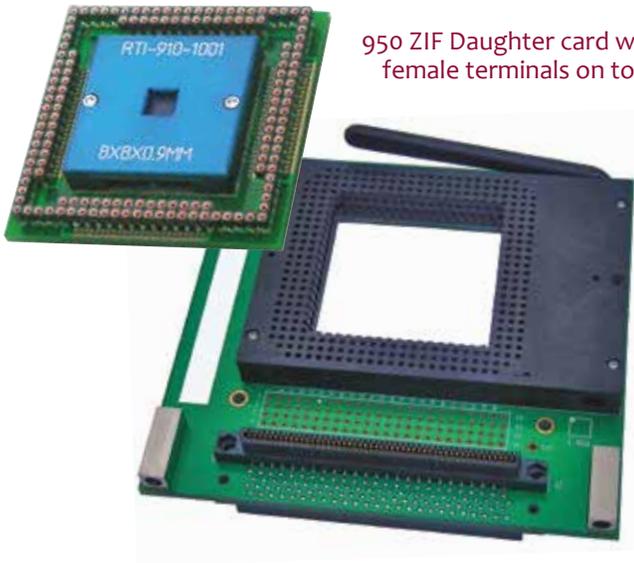
### Additional Details:

- ◆ Designed for RTI's FA/Engineering Test Sockets
- ◆ Small Size: 2.5" square daughter card / 5.5" square fixture base
- ◆ Any pin can be tied to ground or V+ using solder bridges
- ◆ Small 0402 SMT components can be added between any pin and ground or V+
- ◆ Available with or without headers
- ◆ Space for filter capacitors



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## 950 Custom Options

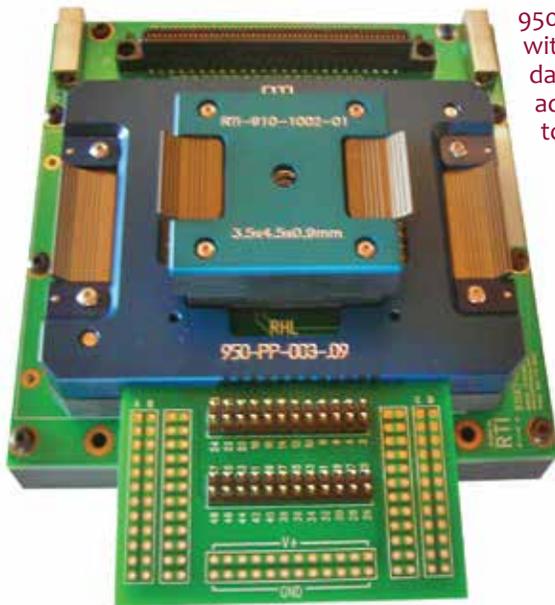


950 ZIF Daughter card with female terminals on top

950 ZIF fixture base with connectors on top and bottom



Extended daughter card with header pins and plated thru holes to allow access to all DUT pins. Can be used stand-alone or with the 950 base.



950 fixture with modified daughter card to allow additional access to DUT Pins.



950 fixture with modified daughter card to allow RF measurements on a hybrid RF module.

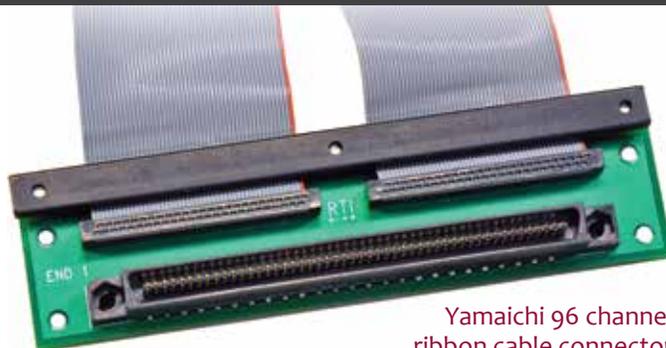


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## 950 Interfacing & Heated Options

### Interfacing:

All 950 fixture bases use 96 channel Yamaichi cables to interface with test equipment and other peripherals. All products are RoHS compliant. Connectors are offered on the top and bottom of the fixture base, allowing the 950 to stand alone, or connect directly to a tester or other adapter.



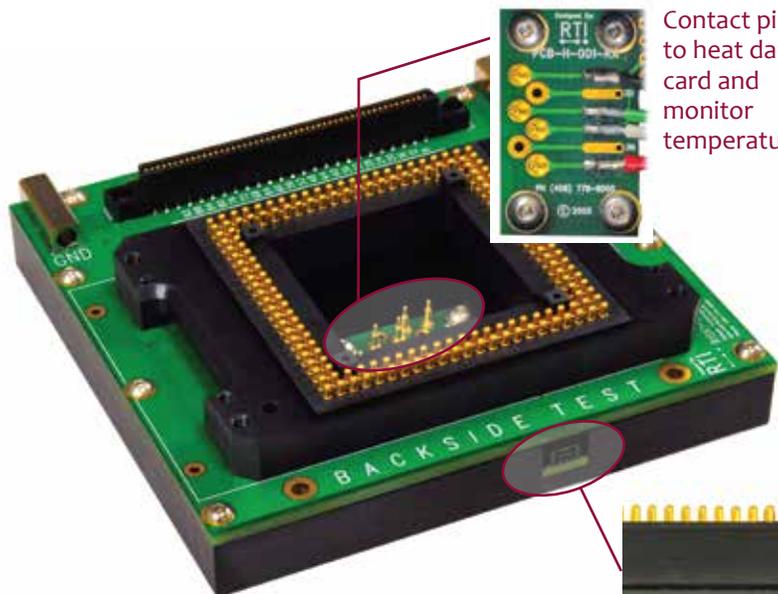
Yamaichi 96 channel ribbon cable connector

### Heated Options:

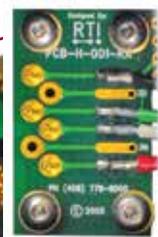
Heated daughter cards and socket lids have a built in copper heating element and temperature-sensing device (RTD or Thermistor). A RTI temperature controller is required for the operation of heated equipment. A heated fixture base is required for heated mini cards. Heated mini cards rely on the fixture base to power and monitor temperature. Heated lids connect directly to the temperature controller and do not require a heated fixture base. Due to its unique design, a standard fixture base cannot be upgraded later to a heated fixture base.



910-1017C heated lid that connects directly to a temperature controller



950 backside fixture base with connector for the cable to the RTI 9002A temperature controller



Contact pins to heat daughter card and monitor temperature



Bottom of 950 daughter card shown here with contacts for heated socket base



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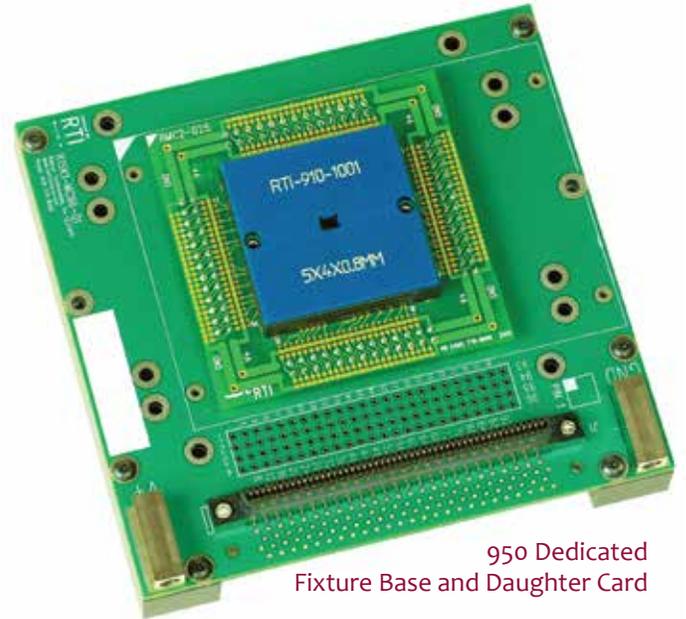
## 950 Dedicated Cards & Compability

### Dedicated 950 Daughter Cards:

Lower cost dedicated 950 fixtures are also available when only a few package types are being tested. These have all of the features found on the universal fixtures, but are for a single package type only.

### 950 Compatibility:

The 950 family of fixtures will directly interface to RTI's Curve Tracing test equipment. The low profile 950 fixture is highly compact and easily fits under a microscope or in a black box. Fixtures are also compatible with the versatile 950-384 pin motherboard interfaces. The 100 pin, 96 channel connector makes it highly versital, allowing it to interface with many third party testers.



950 Dedicated Fixture Base and Daughter Card



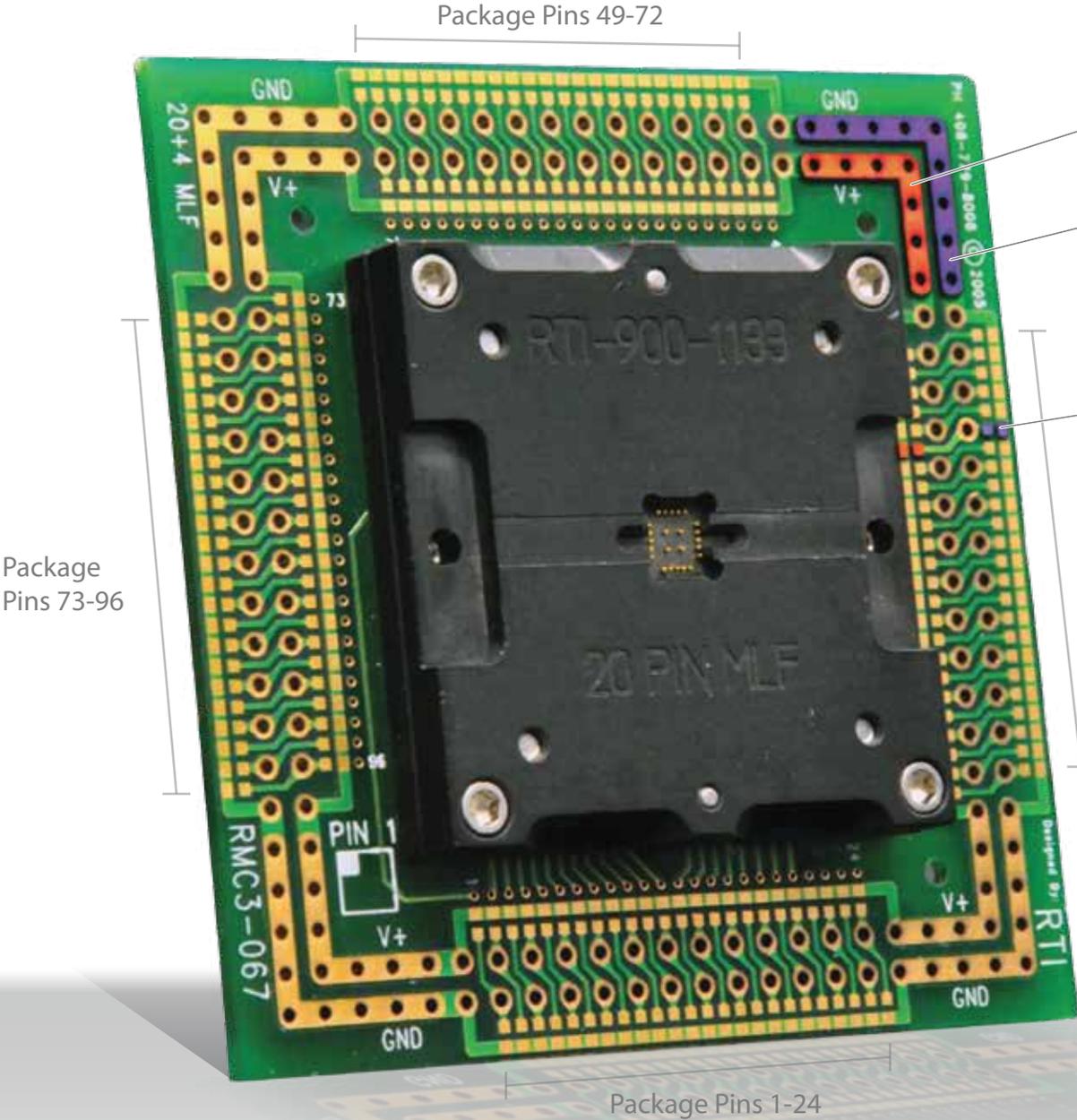
950 Fixture Mounted on a 950-384 Connector Motherboard



950 Dedicated Fixture Mounted on a RTI MultiTrace Test System and Connected to a Black Box For Microscope Use



# 950 Series Daughter Card Overview



• **+V (inner ring)** leads to +V banana plug on the 950 fixture base.

• **GND (outer ring)** leads to the GROUND banana plug on the 950 base and ties to pins 1, 2, 99, and 100 of Yamaichi® connector.

• SMT pads for each signal pin allow for optional R/C loads to V+ or GND rings.

