



# Robson Technologies, Inc.

## Test Socket - Lid Design Options



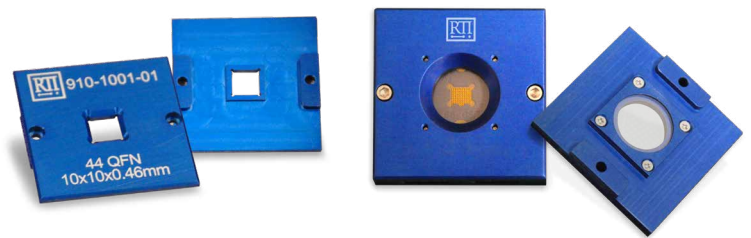
### **Dynamic Lids to Reduce Cost of Test:**

RTI pogo pin based test sockets require a lid to supply the compression force between the DUT and the pins. Multiple lid styles are compatible with the same test socket body which allows you to use the same test socket across multiple test applications, reducing the need to purchase new sockets for each stage of test, and effectively reducing your overall cost of test.

Most RTI lids can be categorized into the following design styles, each with their own set of customization options that make them ideal for your various test configurations. Fully customized lids can also be available to meet unique test requirements.

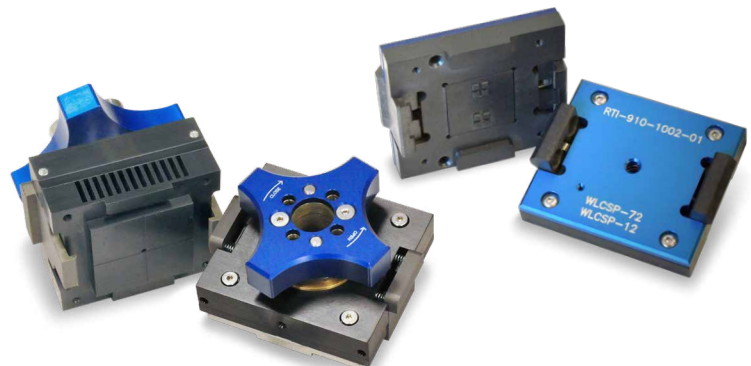
### **Screw-Down Low Profile:**

- ♦ Lid attaches to socket base with 2 or 4 screws
- ♦ Very low profile brings you closer to your DUT
- ♦ Quartz or sapphire glass windows for WLCSP
- ♦ Opening for topside DUT access or closed top
- ♦ Anodized aluminum, stainless steel, or plastic



### **Clip-on Dual-Latch Removable:**

- ♦ Lid attaches to socket base with 2 latches
- ♦ Adjustable Z-height for high pin count, high force
- ♦ Spring loaded pressure plate for low pin count
- ♦ Openings above DUT for forced air and venting
- ♦ Universal design for use with multiple DUTs





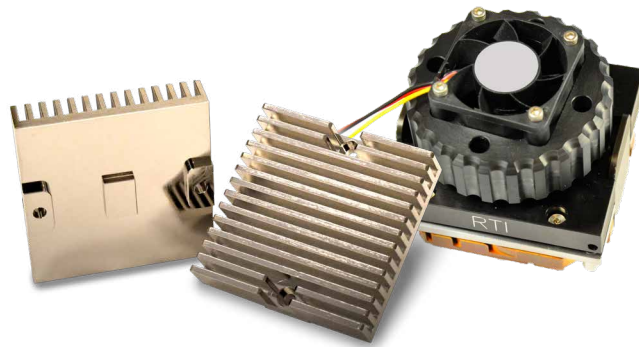
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## Test Socket - Lid Options Continued



### Clamshell Attached or Removable:

- ◇ Single hinge for rapid swapping of DUTs
- ◇ Removable clamshell attaches with 2 or 4 screws
- ◇ Spring loaded pressure plate ensures even force
- ◇ Single or dual latch clip-on for low pin count DUTs
- ◇ Opening above DUT for forced air or passive cooling



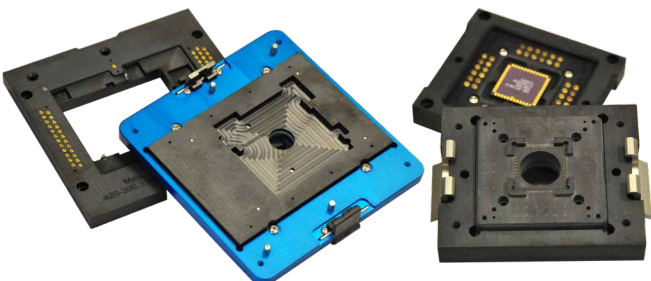
### Heatsinks and Air Cooling:

- ◇ Screw down and clip on designs available
- ◇ Copper, Aluminum, or Nickel plated metals
- ◇ Integrated thermocouple for DUT temp monitoring
- ◇ Heat spreader and fin design based on DUT power
- ◇ Integrated fans for additional air cooling



### Gimbal/Pivoting Pressure Plates:

- ◇ Reduces pinching and shear force on larger DUTs
- ◇ X/Y pivoting pressure plate contacts DUT perimeter
- ◇ Used in single hinge attached clamshell lid designs
- ◇ Wide opening in lid allows for image sensor access
- ◇ Low profile lid thickness for optical inspection tools



### Electrical Contacts & Interposer:

- ◇ Pogo pins and interposer board built into lid
- ◇ Contact test points on the top side of your DUT
- ◇ Incorporate connectors and wiring into the lid
- ◇ Allows topside access to dead-bug loaded DUT's