



# Robson Technologies, Inc.

## PCB & MCM Test Socket Solutions

### PCB & MCM Test Socket Overview

PCB module sockets are ideal for testing Flex, Rigid-Flex, PCB sub-assemblies, and multi-chip modules. Intelligent test socket and lid design ensure device compatibility without sacrificing performance or device level access.

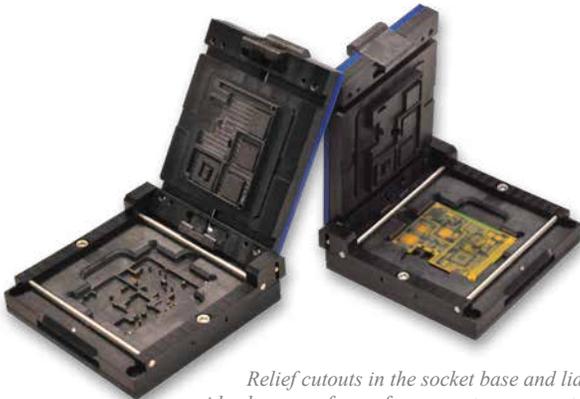
Our PCB test sockets are a small scale and often less expensive alternative to larger PCB test fixtures. Each socket is machined for custom and precise placement of pogo pins, capable of reaching down to 0.3mm pitch. These performance test sockets offer shorter, higher speed contacts than most bed of nails test fixtures. RTI's custom PCB and Multi Chip Module test sockets are custom engineered with fine alignment features and intelligent design options that offer the most for device access and electrical performance.

### Test Socket Options and Features

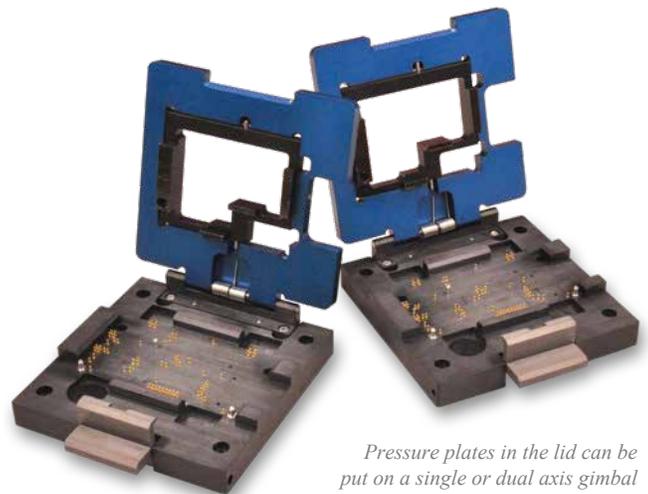
- ◆ Compression mount test sockets attach to the DUT board with screws and can be removed easily
- ◆ Dowel pins in the socket base align with the non-plated thru-holes on the device
- ◆ Contact edge pads on rigid and/or flexible PCBs
- ◆ High Speed, low inductance, and shielded contacts
- ◆ Contact to castellated pads on UUT perimeter
- ◆ Integration of thermal components including heatsinks, thermal blocks and thermocouples.
- ◆ Milled clearances in the socket body and/or lid for SMT components installed on the module
- ◆ RF(coaxial) pogo pins and connectors in the lid and socket base contact topside and backside of UUT
- ◆ Ideal for engineering, prototyping, programming, burn-in, failure analysis, and low volume production



*Custom footprint PCB module test socket body with a hinged dual latch lid uses multiple guide pins for precise UUT alignment*



*Relief cutouts in the socket base and lid provide clearance for surface mount components and apply pressure at specific points on the UUT*



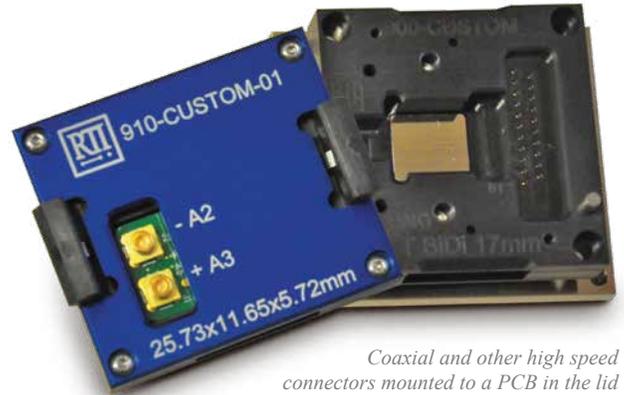
*Pressure plates in the lid can be put on a single or dual axis gimbal to ensure the lid surface rests flat across the UUT when the lid is closed and pressure is applied*



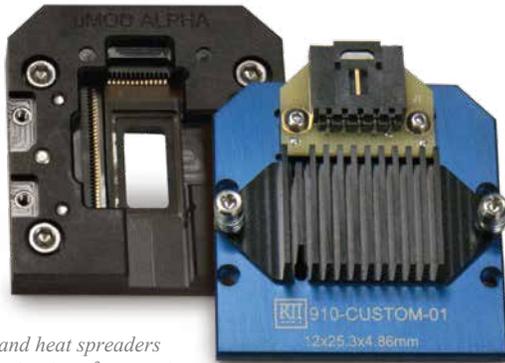
# PCB & MCM Test Socket Solutions (cont.)



Open top lids allow for access to areas on top of the UUT, or for forced air temperature testing



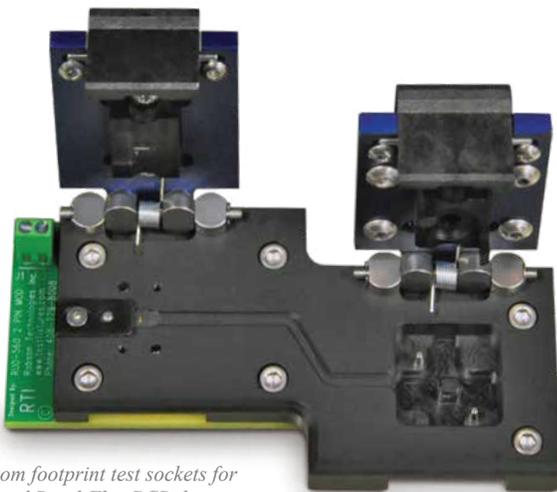
Coaxial and other high speed connectors mounted to a PCB in the lid contact test points or antennas on the topside of UUT



Heat sinks and heat spreaders in the lid maintain safe operating temperatures for UUTs that run hot



Open ended sockets allow the UUT to extend beyond the socket perimeter during test



Custom footprint test sockets for flex and Rigid-Flex PCB devices with unconventional form factors



Multiple lid styles are available for the same test socket base. Interchangeable lids optimize the test socket for use in different test applications