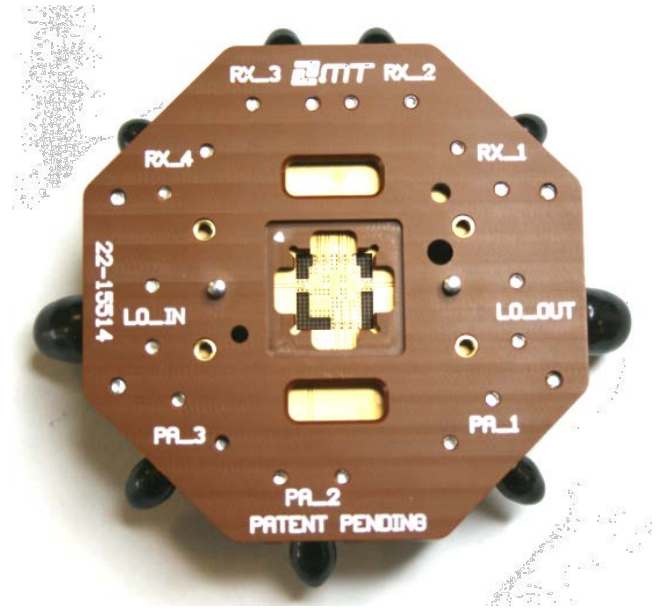


Contactors for Optimal RF Performance and Production-Proven Robustness

Features:

- optimized signal path
- minimized number of signal transitions
- complete assembly available: contactor and test board
- unprecedented performance
- proven in production



Benefits:

- lab and volume production test
- backhaul cellular network applications
- WiGig and WirelessHD applications
- automotive radar applications
- fBGAs, WLCSPs
- pitches down to 0.3 mm



RF / Analog



Digital



Power / Sensor



Wafer Level Test



Contactor for Optimal RF Performance and Production-Proven Robustness

1. Packages and Application

- 1.1 Packages
 - fBGA, WLCSP
 - pitch down to 0.3 mm
- 1.2 Automated Test
 - handler-specific design / configuration
 - singulated packages
 - Xcerra Test Cell package available
- 1.3 Manual Test
 - high-resolution manual actuators available

2. Environmental

- 2.1 Operation Temperature Range
 - -55° C +155° C

3. Reliability*

- 3.1 Component Life
 - contacts: > 250 k
- 3.2 Cleaning Cycle
 - MTBC ~ 50 k* application specific

4. Electrical

- 4.1 Insertion Loss
 - 4 – 6 dB @ 80 GHz **
- 4.2 Return Loss
 - ≤ -10 dB @ 80 GHz
- 4.3 Contact Resistance***
 - 80 mΩ
- 4.4 Maximum Continuous Current
 - > 1 A

5. Mechanical

- 5.1 Compliance
 - leadframe: ~200 μm
 - spring probe: 380 μm (total)

6. Materials

- 6.1 Housing Material
 - Vespel SP-1
- 6.2 Leadframe Contact Material
 - proprietary
- 6.3 Spring Probe Contact Material
 - gold-plated steel
- 6.4 Contact Spring Material
 - gold-plated stainless steel

specifications are subject to change without notification and are for reference only. use contactor drawing to design interface hardware.

*cleaning frequency and life specifications are estimates based on customer feedback. actual values are dependent on the application (DUT materials, handler kit, maintenance, etc.)

** path includes leadframe and connector, which connects directly to test head instrumentation.

*** typical resistance measured between Au plated sheets

All performance figures such as MTBF, MTBA, Uptime, Yield, Jam Rate, Life Span, Cleaning Cycles etc. can vary with specific package type, test program and / or specific application environment. They assume that only original Multitest spare and consumable parts are used, recommended maintenance intervals and procedures are respected, operators/maintenance technicians have successfully participated in formal equipment training by Multitest to the appropriate level, and only Multitest approved software is used on the systems. Multitest assumes no warranty or liability if any of these requirements is not met. All listed data are for information only. For binding specification please contact your sales person.

