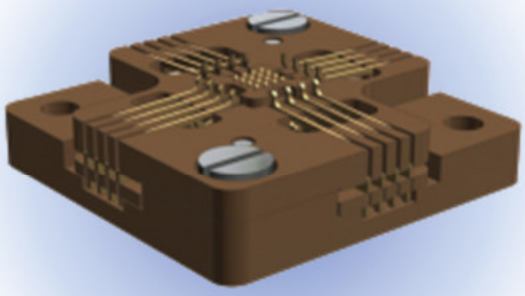
Cohu

MiCon CONTACTOR



Proven Cantilever Technology for MCUs and ASICs

RF

High End Digital

Automotive / Power

Precision Analog / Sensors

Mobility

Benefits:

- Boosted first pass yield
- Enhanced production reliability
- Testing at full specification values
- Improved Overall Equipment Efficiency (OEE)
- Extended maintenance intervals
- Reduced cost of test

Key Features:

- Matches existing spring pin test boards for an easy and cost-efficient conversion
- Extended compliance window
- Contact motion decoupled from the test board
- Proven self-cleaning wipe
- Durable one piece design
- Low and stable contact resistance
- High current carrying capability
- Extended temperature range

MiCon CONTACTOR

1. Packages and Applications

1.1 Packages
- QFP, SO, QFN, DFN, SOT + other singulated, non grid array devices
- Minimum lead pitch 0.4 mm
- All device lead platings

1.2 Test Handlers
- All handler types
- All established handler brands

2. Environmental

2.1 Temperature Range
- -60 °C to +175 °C

3. Reliability

3.1 Contact Spring Lifespan[1]
- 1 Mio. + insertions

4. Electrical

4.1 Bandwidth
- 4.5 GHz @ -1 dB (GSG 0.4 mm pitch)

4.2 Loop Inductance
- 3.3 nH (GSG 0.4 mm pitch)

4.3 Typical Contact Resistance [2]
- Forta: 40 mΩ

4.4 Current
- Maximum peak current: 25 A @ 1 % duty cycle [3]
- Maximum continuous current: 2.5 A

5. Mechanical

5.1 Contact Spring Type
- Cantilever/ single piece

5.2 Contact Spring Force
- 0.55 N/pin (normal)
- 0.4 N/pin (low force)

5.3 Standard Test Height
- 4.5 mm

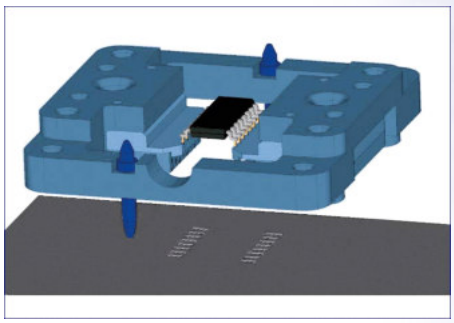
6. Materials

6.1 Contact Spring Material
- CuBe

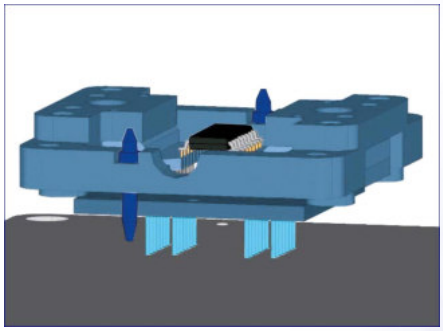
6.2 Contact Spring Coating[4]
- Forta

7. Configurations / Interface Options

7.1 Plunge to Board



7.2 Through hole (on request)



8. Technical Standards

8.1 Compliant to
- ISO 9001 : 2000

[1] Electrical resistance increase due to contamination not covered
[2] Typical resistance measured between Au plated sheets
[3] Based on 1 sec cycle time and 20 °C temp. rise
[4] Other base materials and coatings on request

Cantilever Technology
The Cohu Cantilever products stand for highest performance at best Cost of Test. They ensure highest contact yield by highly precise contacting and a unique self-cleaning of the contact. The spring geometry offers a specific wipe which allows penetrating oxide and debris.

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