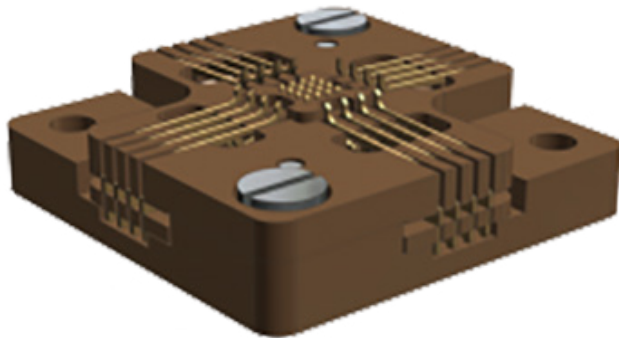


# MiCon Contactor

Proven Cantilever Technology for Microcontrollers and ASICs



Automotive / Power



Mobility



Precision Analog / Sensors



High End Digital



RF

## 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

- Temperature range  $-60^{\circ}\text{C}$  to  $+175^{\circ}\text{C}$
- High bandwidth of 4.5 GHz @ -1 dB

- Extended compliance window
- Durable one piece design assures low and stable CRES

# MiCon Contactor

## Proven Cantilever Technology for Microcontrollers and ASICs

### Specifications

#### Packages and Applications

- Packages
  - QFP, SO, QFN, DFN, SOT + other singulated, non-grid array devices
  - Minimum lead pitch 0.4 mm
  - All device lead platings
- Test Handlers
  - All handler types
  - All established handler brands

#### Environmental

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

#### Reliability

- Contact Spring Lifespan<sup>1</sup>
  - 1 Mio. + insertions

#### Electrical

- Bandwidth
  - 4.5 GHz @ -1 dB (GSG 0.4 mm pitch)
- Loop Inductance
  - 3.3 nH (GSG 0.4 mm pitch)
- Typical Contact Resistance<sup>2</sup>
  - Forta: 40 mΩ
- Current
  - Maximum peak current: 25 A @ 1 % duty cycle<sup>3</sup>
  - Maximum continuous current: 2.5 A

#### Mechanical

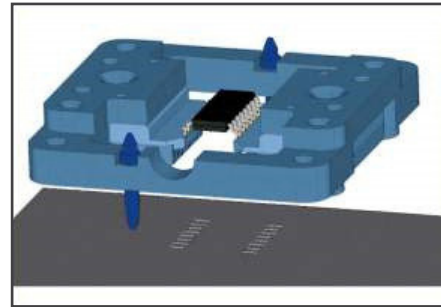
- Contact Spring Type
  - Cantilever / single piece
- Contact Spring Force
  - 0.55 N/pin (normal)
  - 0.4 N/pin (low force)
- Standard Test Height
  - 4.5 mm

#### Materials

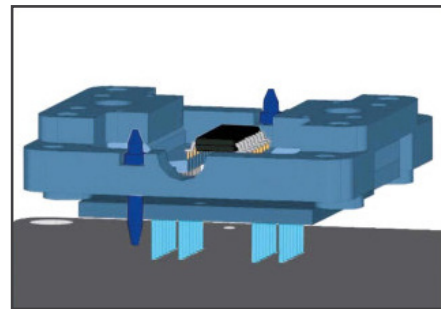
- Contact Spring Material
  - CuBe
- Contact Spring Coating<sup>4</sup>
  - Forta

#### Configurations / Interface Options

- Plunge to Board



- Through hole (on request)



#### Technical Standards

- Compliant to
  - ISO 9001 : 2000

<sup>1</sup> Electrical resistance increase due to contamination not covered

<sup>2</sup> Typical resistance measured between Au plated sheets

<sup>3</sup> Based on 1 sec cycle time and 20°C temp. rise

<sup>4</sup> Other base materials and coatings on request

All specifications are subject to change without notification and are for reference only. Use contactor drawing to design interface hardware. For detailed performance specifications, please contact Cohu.