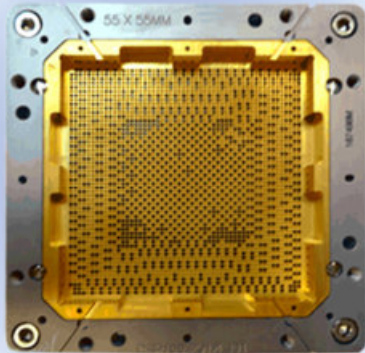


# ICON™ COAXIAL CONTACTOR



Production Solution for Testing  
High End Digital Applications to 60 Gbps



RF



High End Digital



Automotive / Power



Precision Analog /  
Sensors



Mobility

## Benefits:

- Long life and lower cost of test
- Consistent electrical performance
- Suitable for BGA / LGA pitches down to 0.8 mm
- Suitable for GPU, SerDes, DDR, PAM<sub>4</sub>, HDMI, PCIE and SAW applications

## Key Features:

- High isolation full ground shielding from board to DUT
- Exceptional DC and RF performance
- High frequency
- Excellent thermal management

# ICON™ COAXIAL CONTACTOR

## 1. Packages and Application

### 1.1 Packages

- BGA, LGA
- Singulated devices or strip test
- 0.8 mm or 1.0 mm pitch

## 2. Environmental

### 2.1 Temperature Range

- -55 °C +155 °C

## 3. Reliability\*

### 3.1 Typical Probe Life

- 250 k cycles

## 4. Electrical

### 4.1 Bandwidth @ -1 dB Insertion Loss

- 0.8 mm pitch: 52 GHz
- 1.0 mm pitch: 38 GHz

### 4.2 Return Loss GSG

- 0.8 mm pitch: -10 dB @ 51 GHz
- 1.0 mm pitch: -10 dB @ > 35 GHz

### 4.3 Isolation

- 0.8 mm pitch: -60 dB @ > 40 GHz
- 1.0 mm pitch: -50 dB @ > 40 GHz

### 4.4 Maximum Continuous Current

- 0.8 mm pitch: 2.4 A
- 1.0 mm pitch: 1.7 A

### 4.5 Maximum Peak Current

- 0.8 mm pitch: > 30 A
- 1.0 mm pitch: 17 A

### 4.6 Typical Contact Resistance\*\*

- < 125 mΩ

### 4.7 Typical Impedance

- 50 Ω

## 5. Mechanical

### 5.1 DUT-side compliance

- 0.8 mm pitch: 250 mm
- 1.0 mm pitch: 330 mm

### 5.2 Contact Length at Test Height

- 0.8 mm pitch: 2.74 mm
- 1.0 mm pitch: 5.1 mm

### 5.3 Contact Spring Force at Test Height

- 0.8 mm pitch: 0.25 N
- 1.0 mm pitch: 0.3 N

### 5.4 DUT Tip Style

- Four-point crown

### 5.5 PCB Tip Style

- 0.8 mm pitch: full radius
- 1.0 mm pitch: four-point crown

## 6. Materials

### 6.1 Housing Material

- Gold-plated aluminum

### 6.2 Contact Spring Material

- Stainless steel

### 6.3 Contact Spring Coating

- Hard gold

## 7. Configurations / Interface Options

### 7.1 Automated Test

- Handler specific design / configuration
- Singulated package

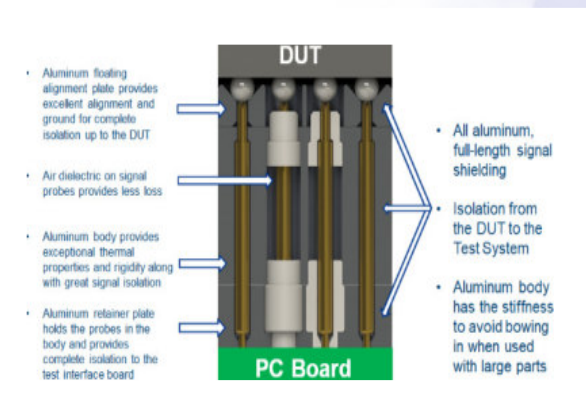
### 7.2 Manual Test

- Manual actuators available

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

\*\*Typical resistance measured between Au plated sheets

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



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 Cohu spare and consumable parts are used, recommended maintenance intervals and procedures are respected, operators/maintenance technicians have successfully participated in formal equipment training by Cohu to the appropriate level, and only Cohu approved software is used on the systems. Cohu 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.

