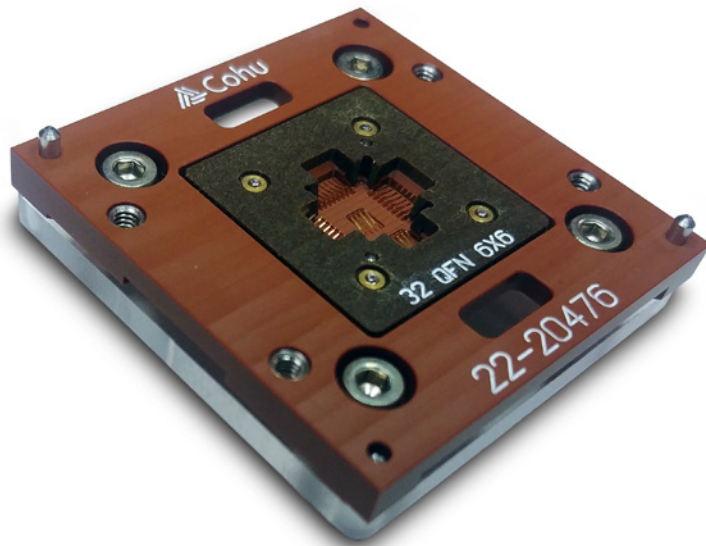


# cDragon Contactor

Excellent RF Performance with Low Cost of Ownership



Automotive / Power



Mobility



Precision Analog / Sensors



High End Digital



RF

## High Productivity

- No loadboard wear and tear
- Increased system uptime due to long life and low maintenance
- Pin replacement in <5 minutes
- Drop-in solution for existing high-performance setups
- High test yield and mechanical reliability
- Constant temperature at DUT  $\pm 2^{\circ}\text{C}$  of handler setpoint typical

## Key Features

- Homogenous MEMS elastomer-free multibeam pin
- Low loop inductance and high bandwidth
- Outstanding pin-to-pin CRES stability
- Pitches down to 0.3 mm
- Self-cleaning controlled scrub
- Per-pin heat exchangers

- Temperature range  $-55^{\circ}\text{C}$  to  $+175^{\circ}\text{C}$
- Bandwidth 22 GHz @ -1 dB

- Pitches down to 0.3 mm
- Life cycle >1M Automated Test

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## Specifications

### Packages and Applications

- SO, QFP, QFN, DN, PLCC
- Pitches down to 0.3 mm

### Environmental

- Temperature range: -55 °C to +175 °C

### Reliability\*

- Typical probe life: 500,000 cycles

### Electrical

- Bandwidth @ -1 dB Insertion Loss
  - 0.4 mm pitch: 19 GHz
  - 0.5 mm pitch: 23 GHz
- Return Loss @ -10 dB
  - 0.4 mm pitch: 11 GHz
  - 0.5 mm pitch: 19 GHz
- Loop Inductance
  - 0.4 mm pitch: 0.43 nH
  - 0.5 mm pitch: 0.66 nH
- ISMI Current Rating
  - 4.6 A
- Contact Resistance\*\*
  - 30 mΩ

### Mechanical

- Contact Pitches Supported
  - 0.3 mm and up
- Contact Force at Test Height
  - 0.39 N (40 g)
- Test Height
  - 1.40 mm
- DUT Side Compliance
  - 250 μm

### Materials

- Pin Material
  - Proprietary alloy
- Pin Plating
  - Hard gold
- Housing Material
  - Vespel® SP-1,
  - Torlon
  - Semitron
  - Others available on request

### Configurations / Interface Options

- Automated test  
Customer-specific design / configuration
- Optional manual actuator

\* 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

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.