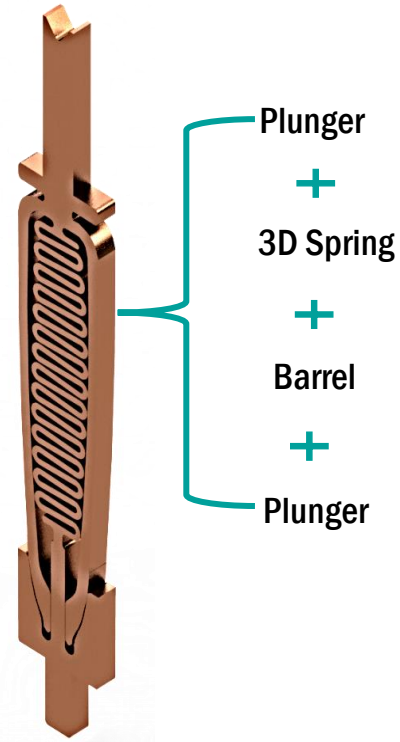
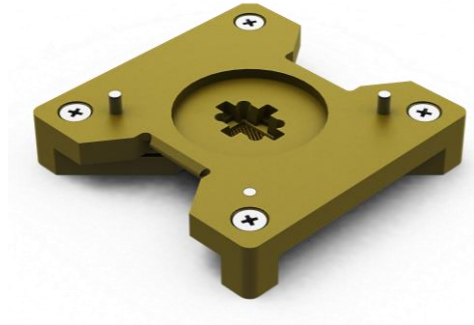


UNICON™

TEST CONTACTING SOLUTION



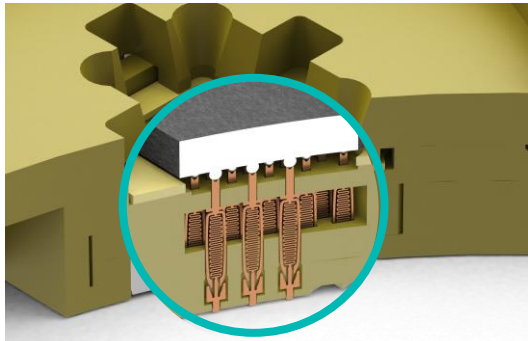
(PATENT NO: US 10,446,965)



Unibody Contact

Unicon Pin's Design Methodology

Unicon= Unibody Contact. No multiple parts like in spring probes (No barrel, No spring, No plunger)
Unicon is a 2D spring, self-actuating, one piece contact probe/pin



Targeted Applications

Super High-Precision formation of versatile shapes enables creation of separate spring and barrel sections in a single component



Precision Analog & Sensors



Mobility

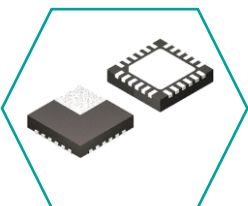


Automotive & Power*



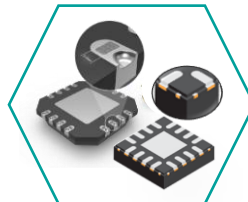
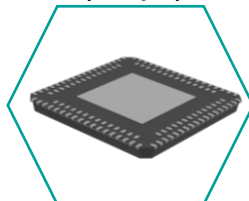
RF Applications

Package Range



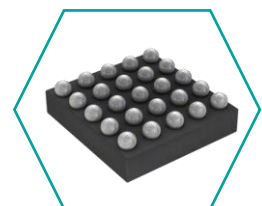
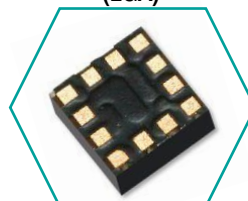
Leadless Package

Dual Row Quad Flat Package (DR-QFN)



Wetable Flank Package (WF-QFN)

Land-Grid Array Package (LGA)



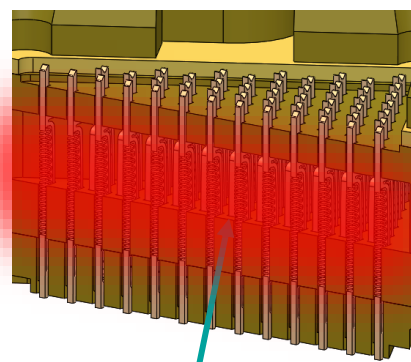
Ball-Grid Array Package (BGA)

UNICON™ TEST CONTACTING SOLUTION

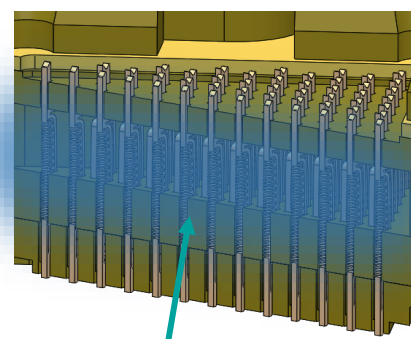
Features & Benefits

01	Unibody Design/Homogenous Material Low Resistance Barrier Precision measurements, Test consistency
02	One Piece Structure and Relay Low Resistance barrier Better Signal Integrity Fast frequency response (TDR) Unibody Design/Homogenous Material
03	Flat Sheet Boundless Design Self cleaning, avoids localized heating and melting
04	Unique Socket Construction Rigid Embodiment, Performance consistency
05	2D-Spring Controlled Inductance/Impedance, Application friendly
06	Temperature Assisted Socket Design Tri-Temp Capability, Sustainable performance
07	Advanced Contact Finishing - [ACF]^+ Low to High frequency applications. Longer MTBA, MTBF, Sustainability of specification

Unicon Performance



TCC: Thermal Conditioning Channel (150°C)



TCC: Thermal Conditioning Channel (-40°C)

Mechanical Specifications	Unicon
Pin Uncompressed Height (mm)	*3.44 mm
Pin Compliance (mm)	*0.15 mm
Force (grams)	*10 g -20 g
Number of Insertion- Housing	*>1M
Number of Insertion- Pin	*300k - 500k
Operating Temperature	*- 40°C to +150°C
Socket/Module Material	*Torlon or equivalent
Pin Material	*Special Alloy

Electrical Specifications	Unicon
Inductance	*1.7 nH
Capacitance	*0.2 pF
S21 (Insertion Loss/Bandwidth)	* -1 dB @ 26 GHz
S11 (Return Loss/Bandwidth)	* -20 dB @ 5 GHz
S41 (Crosstalk/Bandwidth)	* -20dB @ 27 GHz
Contact DC Resistance	*≤70 mΩ
Current Carrying Capacity (A)	*1.5 A

***Disclaimer:**

- Above data are development data and is subjected to change at any time based on improvements and other reasons
- Simulated results are general specifications based on 0.30mm pitching showing the highest bandwidth number
- Current pin thickness available: 4 mils (0.10mm) only

*Note * : The stated specifications are based on JF Microtechnology's Laboratory Test; the results may vary subjected to the test environment conditions. Information furnished by JF Microtechnology is believed to be accurate and reliable. However, no responsibility is assumed by JF Microtechnology for its use, nor for any infringements of patents or other rights of third parties that may result from its use. Specifications subject to change without notice. No license is granted by implication or otherwise under any patent or patent rights of JF Microtechnology. Trademarks and registered trademarks are the property of their respective owners.*

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