

High Performance LGA Connectors



Low Cost Per Position

High AC Performance

Down to .4mm Pitch

Versatile/Scalable Designs

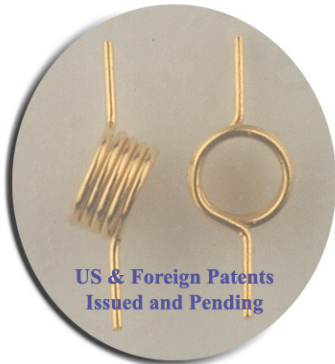
Consistent DC Resistance

Shock Proof Durability

Volume Production Ready

RC Springprobe™

Scalable Compliant Interconnect Technology



Offered in a broad range of standard and custom designed connectors and sockets, RC Springprobe™ Technology is a reliable discrete node, z-axis interconnect solution for AC connectors.

RC Springprobe™ connectors, contactors and interposers are available for board-to-board, IC-to-board, flex-to-board and other high density applications.

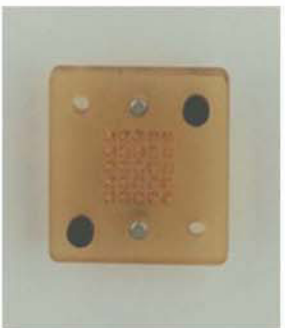
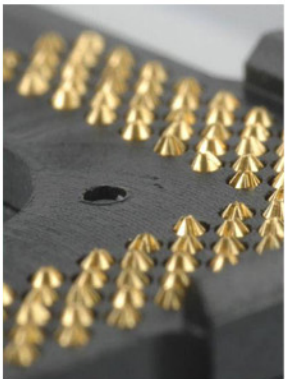
Ardent Concepts is focused on increasing electrical efficiencies and reducing connector costs. Ardent's RC Springprobe™ technology is robust, scalable, and cost effective. This versatile compliant contact technology increases AC accuracy, lowers connector costs, and provides reliable performance from development to production.

US Patent #s 6,787,709, 6,909,056, 7,019,222, 7,126,062

High Performance LGA Connectors

Scalable Compliant Connector Technology For Demanding Applications

Ardent Concepts offers a complete family of high performance connectors that are 'drop-in' replacements for spring pin, elastomer-based, or fuzz button connectors. Suitable for the most demanding RF applications, these high-performance, electrically efficient connectors are ideal for multi-GHz applications. This highly robust solution offers extremely consistent resistance, lower force, and exceptional signal integrity over thousands of mating cycles.



Features

Patented RC Springprobes™
 Discrete Nodes/All Metal
 Low Self-Inductance
 Consistent Resistance

Benefits

Scalable Pitch/Versatile Solutions
 Highly Reliable Contact
 Better Signal Integrity
 Known Discrete Node Resistance

Mechanical

Pitch 0.40 mm
 Free Length 0.91 mm
 Mated Length 0.81 mm
 Force Per Pin 20-60 grams
 Contact Life > 10,000 mates

Electrical

Current Rating Up To 2.5 amps
 Self-Inductance Down to 0.5 nH
 Characteristic Impedance 56 ohms
 <-1 dB Bandwidth To 37 GHz
 DC Resistance < 50 milliohms

Environmental

Temp -40 - 155° Celsius
 Shock & Vibration 25Gs, No Disconnect