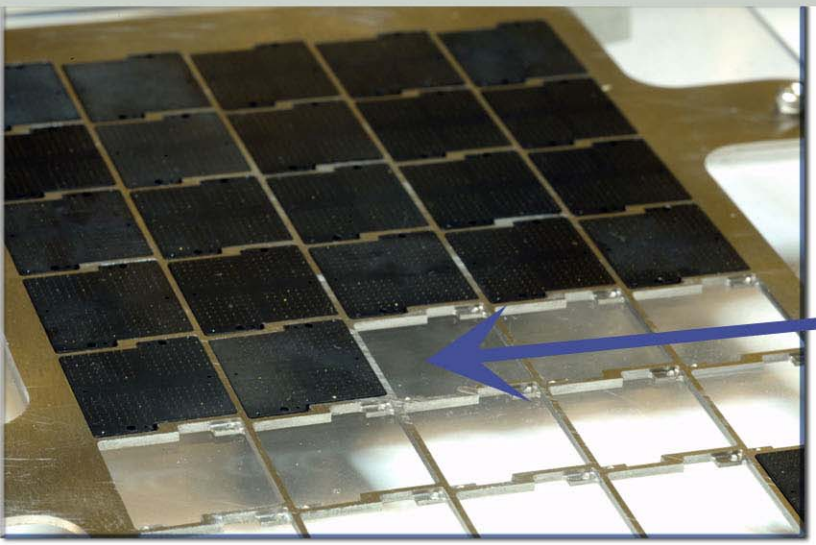
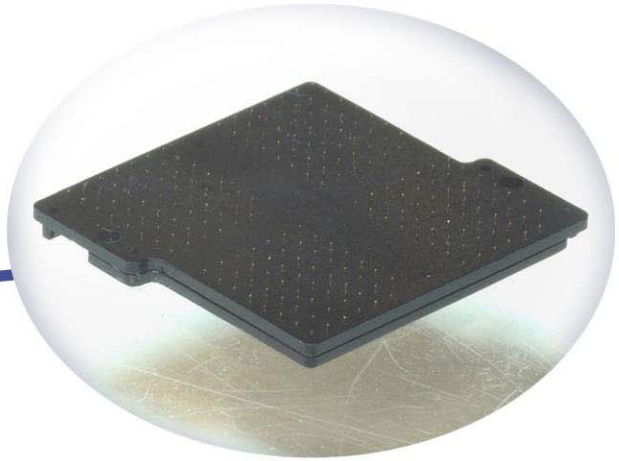
ARDENT CONCEPTS, INC.
Innovative Interconnect Solutions

SPECIFICATION SHEET





RC SPACE TRANSFORM-R™

Low Force, Reliable All-Metal RF interconnect for High Node Count applications

High Density Space Transformers Down to 250 Microns

Available in modular designs for thousand of node, the Ardent RC Space Transform-R is a lower force drop-in replacement for spring-pin type connectors or conductive elastomers. Designed with RC Springprobe™ Technology, this connector is a highly reliable discrete node, z-axis interconnect solution for high node count interconnect applications. Extremely Low Force, consistent DC Resistance, and Exceptional AC Performance for Space Transformer or Probe Card applications.

FEATURES

Low Force	Consistent Resistance Values with less than 10 grams of force per node
Discrete Node	RC Contacts with Straight Through Footprint
All Metal	Solid Contact System in a variety of conductive metallurgies
Short Mated Height	As Low as .9mm Mated Heights
Modular Design	Individual Contact Set Modules are removable

BENEFITS

High Node Counts	Systems Available with up to 10,000 or more nodes
Exceptional Targeting	Small diameter contacts allow for smaller pads on board
Superior AC Performance	Systems Available with up to 37 GHz AC Performance
Reduced Space Requirements	Total z-heights for system can be greatly reduced
Replaceable Contact Sets	Easy to repair and/or replace individual modules

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

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SPACE TRANSFORMER SPECIFICATIONS

Featuring solutions down to .25mm pitch, RC Space Transform-R solutions are offered in an unlimited range of custom grid patterns for ultra high node count applications. The unique RC Springprobe contact design provides exceptional signal integrity for the most demanding high-frequency applications. Space Transformers are designed to minimize PCB footprint, lower overall force requirements, and optimize consistent performance. A variety of modular designs are available, and fully custom solutions are available with short lead times. More information is available via emaill at info@ardentconcepts.com.

TECHNICAL SPECIFICATIONS

Current Carrying Capacity	> 1 amp
Contact DC Resistance	< 100 mΩ
Contact Life cycle	> 10,000
Normal Force	Down to 5 grams
Compliance/Travel	.30 mm

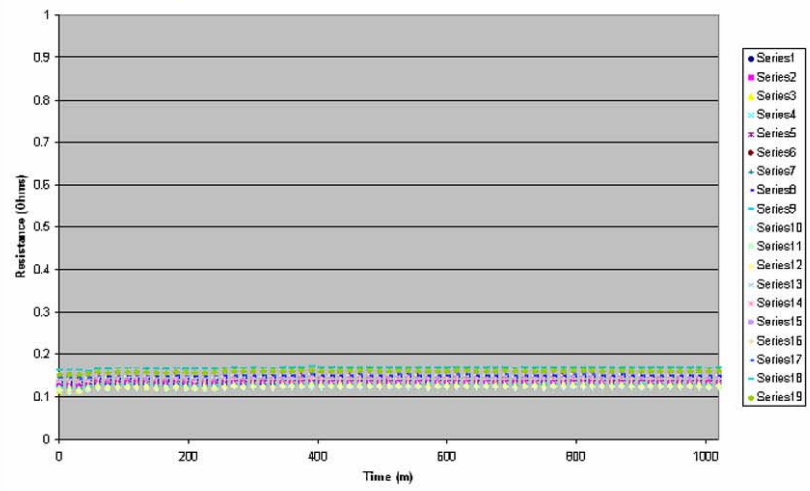
PHYSICAL SPECIFICATIONS

Contact and Plating	BeCu, Stainless Steel, Paliney 7, Hard Au over Ni
Contact Height	.9 mm to 1.5 mm
Housing & Frame	Ultem 1000, Stainless Steel
Environmental	-50° C to 150° C

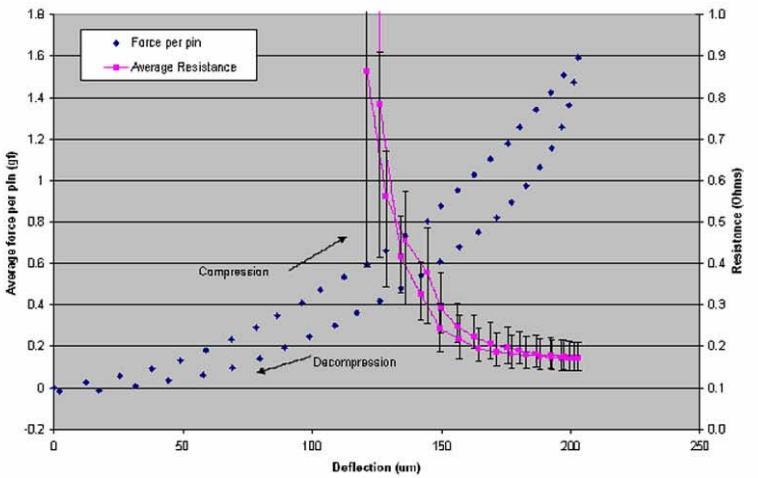
Performance is application based and may vary according to requirements. Additional Performance data available from Factory.

DDS-ST-08

Ardent Space Transform-R Resistance vs Time at 100C



Ardent Space Transform-R FvDvR at 20C



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