

CERAMIC PACKAGES

FEATURES

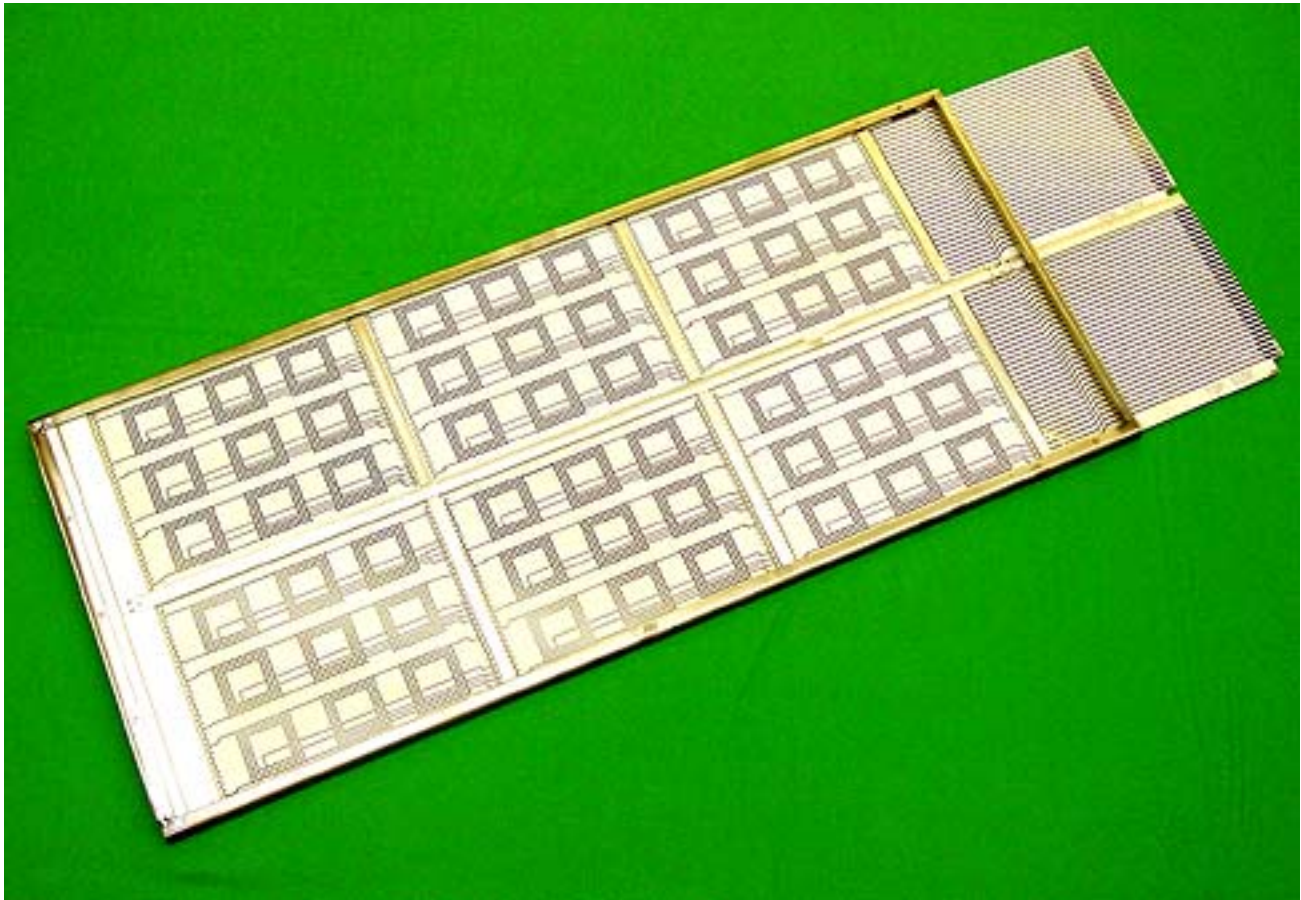
- Pure Ceramic
- 500°C operation
- Any style feed-thru
- Any shape
- Any size to 4 inch square
- Any thickness
- Integral circuit
- Hermetic seal
- Minimal NRE cost
- Easily modified

Proto-type and low volume production as well as small and large packages can now be fabricated using our novel process. Literally any package can be fabricated up to the current four by six inch process limit. Any thickness can be achieved and overhangs can be provided. We term an overhang as a surface which protrudes from the side walls either externally or internally into the interior of the package in a cantilevered fashion. Packages can contain feed throughs of any shape and can also be provided with integral conductive circuitry and solderless HEL-TAC[®] contacts. Essentially, any package design can be fabricated regardless of requirement: electrical I/O, optical I/O, mechanical appliances.

CCI CERA CIRCUITS, INC.

1230 Coleman Avenue, Santa Clara, California 95050-4338
408/727-0100 FAX 408/727-2100
www.fjaind.com

High Performance, High Temperature PCBs[®]



BURN-IN BOARDS CERAMIC

FEATURES

- Alumina ceramic
- 500°C Operating Temperature
- Power plane and ground plane
- Any style I/O
- Any shape board
- Various thickness
- Unlimited number of layers
- Replaceable sub-assemblies

CCI produces custom designed BIBs for testing at elevated temperature. Possessing an operating range far in excess of standard printed circuit boards, our BIBs can operate at temperatures up to 500° C for many cycles. The longevity of these BIBs pays for the initial higher cost many times over.

Our boards can be supplied in a single layer format or in multi-layer configurations with very little limit on the number of layers. Any configuration required is producible including matched impedance lines.

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High Performance, High Temperature BIBS®



PROBE-CARDS

STANDARD CERAMIC DESIGNS

FEATURES

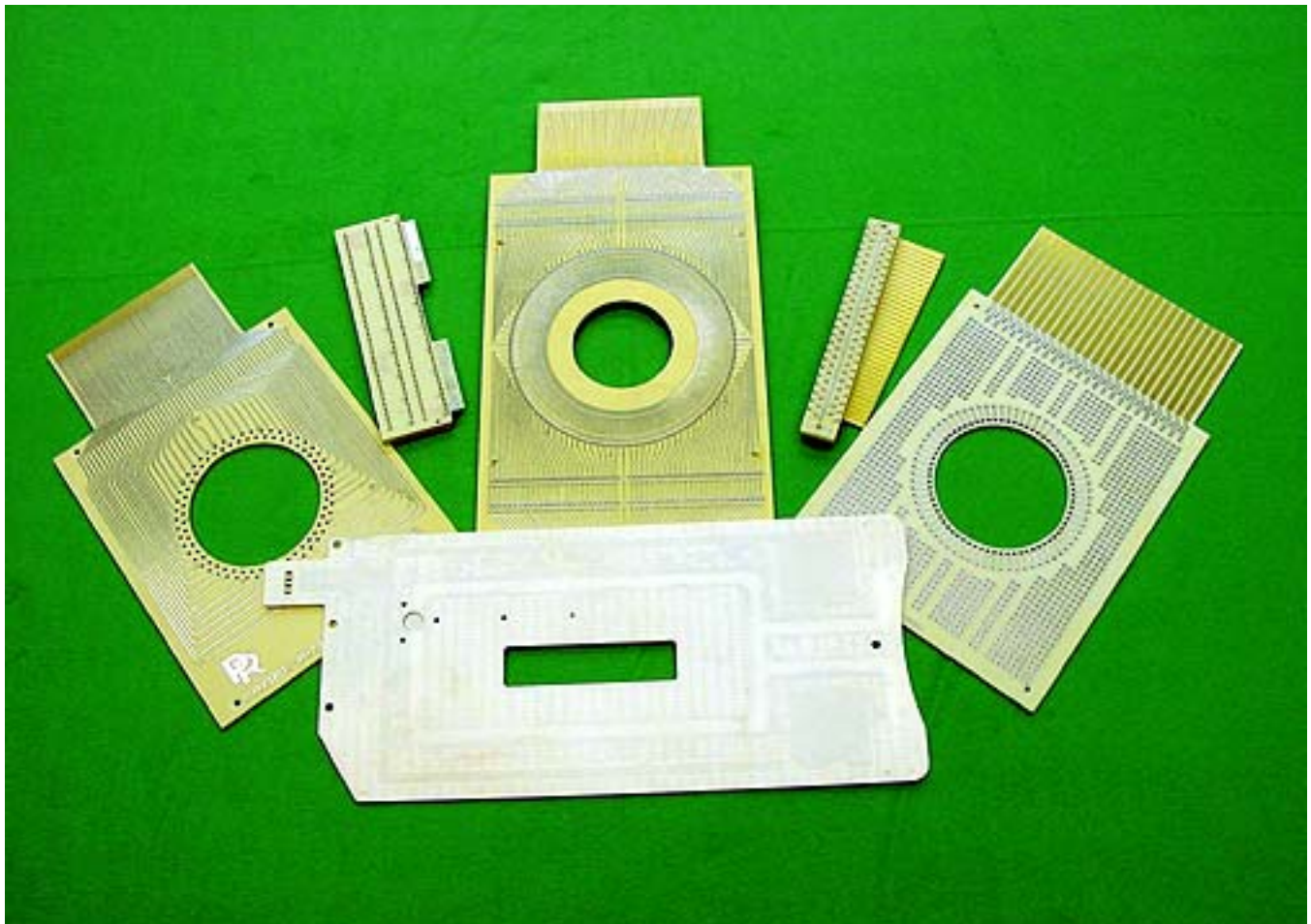
- Alumina ceramic
- 500°C Operating Temperature
- Single layer and multi-layer
- Any shape
- Standard edge board I/O
- Various thickness

CCI provides a full line of standard configuration probe-cards for use with hot-chuck probing. These cards are designed to eliminate the probe-card and probe-point drifting associated with hot-chuck probing as well as the probe-card delamination problem.

Furthermore, hot-chuck temperatures can be raised without fear of probe-card deflection problems which would normally arise from subjecting probe-cards to elevated temperatures. The electrical interfacing issues are also mitigated because of the rigid structures and compliant gold contacts.

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High Performance, High Temperature PCs®



PRINTED CIRCUIT BOARDS CUSTOM CERAMIC DESIGNS

FEATURES

- Alumina Ceramic
- 500⁰ operating temperature
- Single or multi-layer
- Any shape
- Any I/O configuration
- Various thickness

The ability to solve high temperature operational problems coupled with application specific designs is what is achieved by our custom printed circuit board products. The customer is acutely aware of the product's requirements and CCI personnel can integrate those requirements into our technology capabilities to produce a solution which operates at elevated temperatures.

Whether testing semiconductors or probing outer space, our PCBs solve the thermal issues and long term life requirements of our customers.

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