Compunetics’ engineering skill and production techniques allow for the most effective use of advanced materials for embedded capacitance and buried resistors.
The DuPont™ Interra™ series includes embedded planar products that are designed to function as planar capacitors in printed circuit boards. Interra™ HK laminates offer thinness, flexibility, and durability, producing reduced impedance and reduced EMI and embedded capacitance.

Compunetics is regularly at the forefront of next generation technologies, regularly collaborating with vendors of new materials and serving frequently as a beta site.

Applications include:
- Internet servers
- Satellite communications
- Cellular telephone networks
- High Speed Probing

### Omega-Plays
Ohmega-Ply®, manufactured by Ohmega Technologies, Inc., is a thin film resistor-conductor material. Using standard subtractive printed circuit technology, integral resistors are formed on circuit layers. These resistors can be buried within a multilayer circuit board or used on the board surface.

Specifications:
- Minimum Footprint: 4 x 6 mils
- Standard Tolerance: ± 15%
- Advanced Tolerance: ± 10%
- Laser Trimming Available: ± 1%
- Ohm/square Available: 10, 25, 50, 100, 250

### Interra™
The DuPont™ Interra™ series includes embedded planar products that are designed to function as planar capacitors in printed circuit boards. Interra™ HK laminates offer thinness, flexibility, and durability, producing reduced impedance and reduced EMI and embedded capacitance.

### Sample Cross Section
- Before Embedded Capacitance
  - Layers: 18
  - Blind Vias: 1 – 2
  - Buried Vias: 2 – 17
  - Trace/Space: 4 mils (100 µm)
  - Capacitors: 2000+/

- After Embedded Capacitance
  - Layers: 18
  - Blind Vias: Removed All
  - Material: 1 Core DuPont HK
  - Capacitors: Removed 800+