

# Application Note

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C<sup>3</sup> = Cut Cost to Core™

Contact Information  
Rudy Wiesinger  
(888) 535-2366 or  
e-Mail

## Printed Circuit Boards

### Overview

Due to the ever increasing requirements for fine line and multilayer boards, Segue has expanded our printed circuit board capabilities to encompass these and other requests. Our factories in China are some of the most modern and automated, with one factory producing 1 million square meters of boards per year. Customers include some of the biggest names in their industries, such as Microsoft, Samsung, Panasonic, and Harman/JBL along with military and automotive.



### Applications

- Power supplies
- Communications
- Computers and peripherals
- Numerical controlled equipment
- Medical devices
- Test and measurement instrumentation
- Industrial equipment
- Consumer electronics
- Automotive

### Segue Solution

Using high-speed automated equipment, the PCB manufacturing capabilities of Segue range from single sided up to 20 layers, meeting IPC Standards as well as Mil Standards. Manufacturing has UL certificates and are also ISO9000 certified. We are also capable of meeting QS9000 standards for automotive applications if required. Automated test equipment is capable of meeting any electrical testing, along with x-ray and microsection testing. Materials and finishes are RoHS (Lead free) if specified.

### Manufacturing Capabilities

- Materials – FR-1, FR-4, FR-5, CEM-1, CEM-3 and others.
- Maximum Layers – Up to 20 layers
- Min. Hole Size – 0.2mm drilled, 0.1mm laser
- Min. Annular Ring 0.05mm
- Min. Conductor Space/Width - 0.075mm
- Min. SMD Pad Pitch 0.4mm
- Copper Thickness – 1oz., 2oz., 3oz., 4oz.
- Max. Panel Size – 20" x 24"
- Impedance Control Tolerance 50Ω ± 8%
- Surface Treatments
  - Normal HAL
  - Lead Free HAL
  - Plated Gold
  - Immersion Gold
  - Immersion Silver
  - Immersion Tin
  - OSP

### Segue Advantages

- Modern facilities
- Lower cost
- High Quality/Reliability
- Non-lead – RoHS as specified
- Fine line/close spacing capabilities
- Automated and x-ray testing capabilities
- Certified to all major quality standards
- Large selection of materials and finishes including RoHS if specified
- Capacity to meet very high volume
- PCBs supplied alone or assembled
- One vendor for PCBs, custom electronic components, and turnkey assemblies



More information at:

<http://www.segueelectronics.com/sub/products/PCB.htm>

