

Eliminator E6

Pushing testing to a new efficiency

Streamline Circuits continues to reinvest in equipment for High speed, cost effective manufacturing with high density Printed Circuit Boards. Today's Chip manufactures continue to push the capabilities of PCB industry. These companies are creating smaller chip packages, which have made it much more difficult for the PCB manufactures to build and test today's advanced PCB products. The Micro BGA chips, which ranges in size and output (.05mm, .04mm, .035mm and even .025mm) has now made many of the top PCB manufactures discard their older testing methods (clam shell type testing), who can afford to keep up with the technology.

With a need for quicker turn on higher volume on high density PCB orders going through Streamline Circuits, the ATG Eliminator E6, not only cuts on test time during the flying probe test (FPT) but also cuts on costs per order. The E6 leverages FPT advantages of fixtureless, quick test preparation and programming, while overcoming FPT's historical weakness - slow test times per PCB - to make FPT (as part of the Eliminator Test Cell) suitable for prototyping, pre-production and higher-volume production at electrical test.

The Eliminator 6 scans PCB panels at a rate of up to 76.2 mm (3")/second using 10,000 fingers to scan through looking for shorts and/or openings on every network on the PCB regardless of density, test pad size and pitch, or number of PCB images per panel, providing users with improved speed and throughput rates. The board will then complete the last 8% to 15% of the test with the FPT, which would result in less than 2 minutes per panel during this stage (compared to sometimes 4 hours a test panel). What does this mean? This means that for simply inserting the panels into another machine for a few minutes, a company could end up with a 78% reduction on FPT test time.

The most significant of the E6 cost benefits stands to be the elimination of expensive test tooling and fixturing, particularly for the most complex circuits. This would include the specific fixture material cost, related overhead, assembly direct labor, and storage expenses associated with fixture tools. Not to mention, it would grow a PCB manufacture's output capacity dramatically.

Streamline's Tom Doslak (VP) is proud to say that just one Eliminator E6 effectively increases the throughput for each of our several Flying Probe Testers by 3 to 4 times over, significantly increasing our test capacity. This advanced tester not only helps with testing throughput It also accomplishes technology such as Via-In-Pad, Blind and Buried Vias, Sequential lamination, and Laser Copper Filled Vias, which makes our complex PCBs much more challenging to build, test more quickly.

Streamline Circuits is a leading manufacturer of high quality Printed Circuit Boards offering Rigid, Rigid Flex and Multilayer Flex. We are committed to providing our customers the most advanced technology, quality and engineering support available. Streamline's customers take advantage of these highly valued resources to develop a cost effective product in a time sensitive manner. These capabilities are critical for today's technology driven customers. Streamline services communications, military & aerospace, industrial electronics, instrumentation and medical equipment markets, who need to get their quality products to market first.

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