Particle Impact Noise Detection Finds Non-Authentic Electronic Components

NJMET VP Joseph Federico Announced That Their NJ Lab has Found Counterfeit Components Using a Combination of Visual Internal Analysis and Particle Impact Noise Detection Testing. These Components Would Likely Have Failed During Use.

Clifton, NJ (PRWEB) August 01, 2011 -- Joseph Federico, NJMET vice president, announced that testing by the company has found dangerous counterfeit components in two separate customer orders. In both cases, NJMET’s testing revealed weak wire bonds which could have ultimately caused the devices to short during use.

These counterfeit parts were discovered using a combination of visual internal analysis and Particle Impact Noise Detection (PIND).

Particle Impact Noise Detection (PIND) is used to determined the integrity of electronic components by "listening" for the acoustic signals generated by impacts created by loose particles inside the cavities of electronic components such as transistors, integrated circuits, hybrids, diodes, relays and switches. This reliability screening technique employs vibration, shocks, and acoustics and has helped the manufacturers of hermetically sealed electronic components greatly increase the reliability of their products by eliminating contaminants within the cavity.

Over the past year, Joseph Federico and NJMET's active participation in military and aerospace testing forums has lead to the identification of additional requirements that these industries have imposed as specialized tests to uncover non-authentic electronic component products.

For nearly nine years, Joseph Federico, vice president and director of operations at NJMET’s laboratory in NJ, has led a state of the art testing program validating electronic part authenticity called Mission Imposter®. Mr. Federico has presented NJMET’s Mission Imposter program on Fox and CNBC business television. The Mission Imposter program and NJMET’s testing procedures in general continue to evolve both to meet changes in manufacturing and to combat the increasing sophistication of counterfeit electronic components.

“For example, recent advancements in packaging methods have created significantly larger packages with increased weight and require improvements to the test equipment including advancements to the closed loop control of vibration, the increased dynamic range of closed loop control of shock and the addition of multiple crystal acoustic sensors,” said Joseph Federico.

To learn more about PIND Testing read Particle Impact Noise Detection(PIND) Combines Vibration, Shock, and Acoustics For Determining Reliability of Electronic Components by Stewart J. Slykhous.


About NJMET:
For over 30 years, NJMET has provided a wide range of standards-based Testing and Professional Services to the aerospace, defense, construction, automotive and electronics industries. They have recently announced
expansion of their testing services to include standards-based testing for the Textile, Concrete, Paper, Medical Device and Pharmaceutical industries.

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