

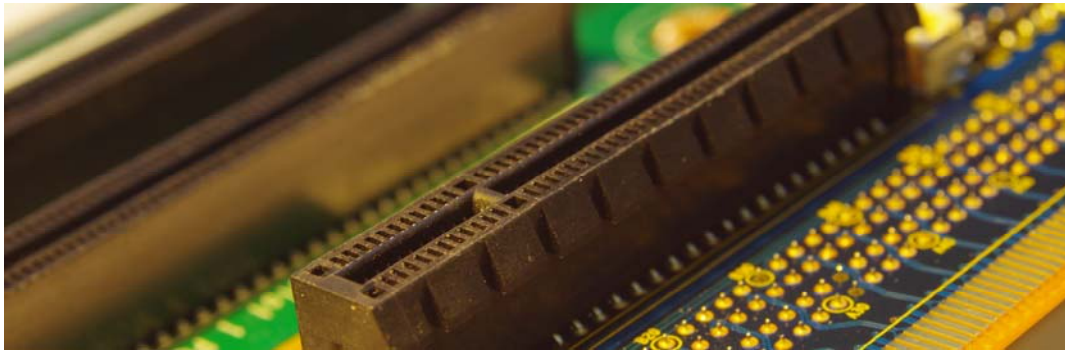
Prevalent Issues with Electronic Connectors

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Abstract:

Electrical connector's sales represent 50 billion dollars per year industry, and with an increasing tendency usage of applications programs; reliability and availability of electrical connectors are critical. With the raising of new technologies and new materials it is required to understand the chemical, mechanical and electrical behavior of electronic connectors to improve their reliability and reduce costs.

Evolution of electronics toward miniaturization, higher speeds, and faster switching frequencies places stringent requirements on connectors. A connector introduces an extra electrical path that can lead to added propagation delay and electrical noise. A connector also introduces another component to the product, and issues associated with integrated design, testing, and operation can affect the operation and performance over time. This presentation focuses on the electrical testing of electronic connectors, lubrication and reliability testing for electronic connectors.

Presenter: Dr. Carlos Morillo has more than 10 years of experience in the area of wear, friction and lubrication of materials. Currently he has focused his efforts in the area of fretting of electronic connectors, selection of lubricants and design of fretting test rigs. Since March 2017, Dr. Morillo joined the iNEMI project Connector Reliability Test Recommendations in the Phase II. If interested in further information on this topic, please email Dr. Morillo at (cmorillo@calce.umd.edu)

