



In a move to provide its customers with more protection from the growing threat of counterfeit and substandard electronic parts, EMAX Test Lab has added the new Oxford Instruments XRF (X-Ray Fluorescence) tabletop analyzer and high-volume X-ray to its test lab quality assurance capabilities.

The new Oxford Instruments XRF (X-Ray Fluorescence) tabletop analyzer enables detailed chemical and composition analysis of components to spot deviations from manufacturer specifications as well as coating thickness. This high precision equipment provides rapid analysis and can detect even low levels of suspect materials.

The XRF test is a non-destructive test to determine what alloy a termination consists of. All devices can be covered using this test process, including BGA's, QFP's, Connectors, standard package types, etc. Samples are screened for elemental and structural composition using the XRF technology process. Registered readings for each screened element are compared to RoHS compliance tolerances and confidential results reported to you in a detailed results document. After parts are tested EMAX Test Lab can supply RoHS Certification.

- Electronic components
 - RoHS compliance verification
 - Material composition comparison to manufacturer's specification
 - Material composition comparison to "Golden Standard"
 - Plating thickness and material composition after RoHS to Sn/Pb (tin/lead) conversion (GEIA-STD-0006 Standard)
- Military and Aerospace Hardware
 - Material composition and plating thickness comparison to the manufacture's specification/drawing

The XRF capability is particularly important in light of the more stringent RoHS (Restriction of Hazardous Substances) standards now enforced by the European Union. Under the RoHS directive, manufacturers are required to produce documentation, including conformity risk assessment and test reports, for a wide range of parts and components. If the technical documentation for a product does not include test reports for certain parts, the manufacturer will have to explain why test reports are not applicable.

Many industries in the United States also now adhere to RoHS standards, making it even more critical that all components meet those standards. This new addition to EMAX Test Lab ensures that components comply with the RoHS directive; XRF provides critical information to aid in the identification of possible counterfeits.

Contact EMAX Test Lab for test pricing.



Thank You,
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Marketing/Sales Department Director

EMAX

Component Test Lab, Inc.

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