Thursday, October 13, 2016

Siborg Systems Inc. Recieves Results from Navair Technologies for LCR-Reader Accuracy Specs

Results for accuracy verification for 4 randomly picked LCR-Readers sent to a leading calibration house in Toronto have come back to Siborg Systems Inc.

TORONTO, ONTARIO (PRWEB) JULY 31, 2015

Siborg Systems Inc created the LCR-Reader as a lower-budget option to the popular Smart Tweezers line of handheld LCR-meters . The LCR-Reader has quickly gained recognition as a cost-effective yet highly accurate device for testing Surface Mount Technology. Unlike the previous Smart Tweezers devices, the LCR-Reader has the basic features offered and does not come with an National Institute of Standards (NIST) traceable certificate. Without this certificate, companies are reluctant to use the device.

The device and a calibration jig that was finalized by the Institute of Automation and Electrometry at the Russian Academy of Sciences were sent to Navair Technologies in Toronto to be tested for their accuracy. Navair Technologies is one of the top calibration facilities in Canada for equipment to be NIST certified.

After receiving the results, the LCR-Reader's results were even better than previously expected. Siborg claimed that the device was about 1% basic accuracy, which turned out to be underestimated; nearly all the measurement values were closer to 0.5%. The only measurement to be out of estimated values was the 1 Ω which was slightly higher than expected due to parasitics between the tweezers tips. All the measurement results can be seen on the LCR-Reader's website or attached to this article.

"We are very happy with the test results", says Michael Obrecht, R&D Director at Siborg Systems Inc, " Although we kept our internal statistics for about 1,000 devices tested showing that we are well complying with the 1% basic accuracy claim, we feel more assured after the results from Navair."

The calibration jig that was created does not create NIST traceable certificates, and requires one itself, but allows users to sporadically check the accuracy of their devices or to use in case of malfunction or failure.

The LCR-Reader is a fully automatic handheld LCR-meter that is held like a pen. The sharp gold-plated tweezers allow the device to fully grasp small components, either mounted or loose, and will instantly evaluate for determined type of component.

The LCR-Reader is a lower-cost model akin to Smart Tweezers with the unique design that combines an LCR-Reader and a set of tweezers that act as the probes. The sharp gold-plated tweezer tips can grasp any component, either mounted or loose, and will automatically determine the type of component and best test frequency. The measurement results are automatically shown on the small display on the device. The LCR-Reader offers less features than the Smart Tweezers line, but makes up in the price retailing less than $200 USD, making it more accessible to non-professionals.

Visit the Smart Tweezers and LCR-Reader Blogs for all the latest news about the devices.

About Siborg Systems Inc.
Established in 1994, Siborg Systems Inc. is a source of engineering software and hardware tools for semiconductor and electronics industry. Located in the city of Waterloo, Ontario, Canada, it enjoys being a part of the local world renowned high-tech community.

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About Institute of Automation and Electrometry:
The Institute was founded in 1957 among the first institutions of the Siberian Branch of the Russian Academy of Sciences. Research directions of the Institute comprise of optics and laser physics, fundamental and applied research and development of laser and optical technologies; system architecture, mathematical models and software for data processing and recognition systems, data analysis and control systems for complex dynamic processes.

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LCR-Reader from Siborg Systems Inc.

Navair Accuracy Verification on LCR-Reader Show Better Than 1% Basic Accuracy for All Types of Components

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Measurement Results From Navair
Navair Technologies NIST Traceable Accuracy Verification for LCR-Reader

LCR-Reader Detailed Picture
LCR-Reader akin to Smart Tweezers LCR-meter with labels

LCR-Reader Specifications Flier
Details about the LCR-Reader LCR-meter

Comparison of Smart Tweezers ST5, LCR-Reader LCR-1, Tesla BM591 and MIC-4090D
Comparison of measured values for through-hole components

140520 Calibration Certificate

140521 Calibration Certificate

140522 Calibration Certificate

140523 Calibration Certificate