

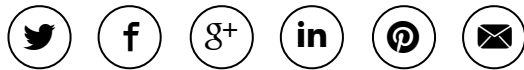


Thursday, October 13, 2016



Black Friday Sale at Siborg: Smart Tweezers LCR-meter and LCR-Reader

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Two popular LCR-meters are offered for sale this Black Friday, November 29, 2013.

WATERLOO, ONTARIO (PRWEB) NOVEMBER 27, 2013

World-renowned Smart Tweezers LCR-meter was first introduced in early 2000s. You may find more information in a brief presentation of [Smart Tweezers History](#).

With constantly improving accuracy and available features, [Smart Tweezers](#) has recently reached basic accuracy of 0.2% and continues to evolve improving both accuracy and a range of applications. Now it is a proven industry leader amongst LCR measurement tools for Surface-Mount Technology (SMT).

The Black Friday Sale starts at 12:00 am Eastern Time and ends at 11:59 pm Eastern Time November 29, 2013. You may order [Smart Tweezers LCR-meter](#) and [LCR-Reader](#) online using any link throughout this posting. Alternatively, you may place your order by a Fax or Phone shown below.

SMT is the most widely used method for building electronic equipment where the components are mounted onto a printed circuit board (PCB). Such components are usually called Surface Mount Devices (SMD). Lately, the older through-hole technology fitting components with wire leads into holes on a PCB has been mostly replaced by Surface-Mount Technology. Often, both of them are used on the same PCB so that components not suited to surface mounting such as heat-sinked power semiconductor devices and transformers can be placed on the PCB.

SMT components are usually small and have very small leads. Besides they are usually too small to be labelled and therefore it is easy to lose track of parts and their values.

This is where [Smart Tweezers](#) come-in handy. With the use of only one hand, this lightweight device quickly evaluates all passive types of SMT components, such as Resistors, Capacitances and Inductances.

The Smart Tweezers LCR-meter automatically determines the type of component, resistor, capacitor, or inductor, and selects the proper range and signal frequency for the highest accuracy measurement. Using

a small graphics display, the Smart Tweezers LCR-meter displays the component type, measurement results, and the test conditions.

"The main advantage of Smart Tweezers is virtually instantaneous and highly accurate evaluation of SMT components as small as 0.3 mm," says Michael Obrecht, R&D director at Siborg. "This accuracy level of about 0.2% is only available from expensive bench-type LCR-meters that require significant efforts in setting-up the measurements."

Smart Tweezers summary of features:

- Automatic LCR, and Equivalent Series Resistance (ESR) measurements
- Basic accuracy of 0.2%
- Li-Ion Battery, USB Charger
- Diode and Continuity test
- Adjustable Test Signal
- Component Sorting with 1%, 5%, 10% and 20% Tolerance
- Semi-automatic Offset Subtraction
- Ideal for small components, as small as 0201 size (about 0.3 mm)
- Displays active and reactive impedance components
- Just 2 Oz weight and ergonomic design
- Long battery life

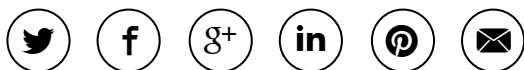
"If you do any work on a PCB, Smart Tweezers, once used, become indispensable," says Obrecht at Siborg. "Users say: "I don't use them every day, or even every week. But when I need them, I really need them!"

In an ongoing effort to reduce LCR-meter price, a budget model ST5L had been released a year back. Recently, we have released LCR-Reader which is almost twice as light as [Smart Tweezers](#), powered by Li-Ion rechargeable battery with a micro-USB connector port. Accuracy of the device is about 1% thus exceeding specs for Smart Tweezers models ST-1, ST-2 and ST-3. It is controlled by a single button that turns the device on and changes the operation mode by a button push: A (Automatic), C (Capacitance), R (Resistance), L (Inductance), and ESR (Equivalent Series Resistance). It does automatic measurements with test signal amplitude of 0.5 Volts and test frequency adjusted based on the component type and value. Alike Smart Tweezers, LCR-Reader measures the main impedance component L, C or R and also parasitic components, such as R for L and C.

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 part of the local world-renowned high-tech community.

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Smart Tweezers LCR-meter
simplifies PCB debugging

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Media



LCR-Reader Akin to Smart Tweezers LCR-meter
Consumer's Choice LCR-meter



LCR-Reader vs Smart Tweezers ST3, ST5 and ST5L
Feature Comparison of LCR-Reader and Previous Smart Tweezers Models



Smart Tweezers ST5 Manual
Smart Tweezers LCR-meter ST5 Manual

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