

SMART TWEEZERS®

MODEL: Colibri ST5C

Measuring with Colibri

- Press the control button to turn on.
- The device powers off automatically if it not operational for 60 seconds.

Note: If the frequency is forced to 10KHz the device might not power off automatically.

- To set both test **frequency** and **measurement function** to **AUTO** press button and hold it for about 2 seconds.
AM and AF symbols appear on the display
- To change **measurement function** press button.
- To change **test frequency** press button and hold it for about 1 second

Note: Set C mode and 100Hz to measure **large value capacitors** reliably.

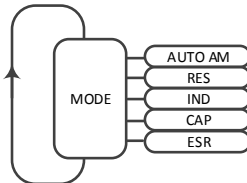
Note: Set L mode and 10KHz to measure **small value inductors** reliably.

Control Diagram

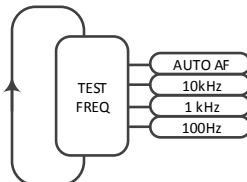
PRESS TO WAKE UP

PRESS & HOLD LONGER THAN 2 SEC
TO SET MODE AND TFREQ TO AUTO

PRESS SHORTER THAN 1SEC



PRESS & HOLD LONGER THAN 1 SEC

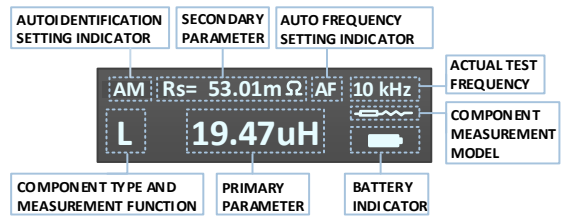


DISCHARGE CAPACITOR BEFORE MEASUREMENTS

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Display Layout



Measurement Functions:

AM - auto identification of L, C or R
L - inductance + resistance
C - capacitance + resistance
R - Resistance
ESR - equivalent series resistance

Test Frequency:

AF - auto selection of the test frequency
100Hz, 1kHz, 10kHz

Component Measurement Model:

Serial (Rs) or Parallel (Rp)

Specifications

Test frequency: 100Hz,1kHz,10kHz

Test signal level: 0.45Vrms, CW

Basic accuracy*: Resistors 0.5% (1% Rx<1Ω ; 0.5% 1Ω <Rx <5MΩ ; 1% Rx>5MΩ)

Capacitors** 1% (5% Cx<10pF ; 1% 10pF<Cx<5000μF ; 5% Cx>5000μF)

Inductance 1% (5% Lx<10μH ; 1% 10μH<Lx<500mH ; 5% Lx>500mH)

Battery life: up to 20hours of continuous operation

Charge time: up to 3hours, DC 5V, 50mA

Physical specification: Dimensions 148x20x15 mm,
Weight 29g, Operating temperature 0 - 50C

* optimal test frequency, offset subtracted from the result.
Typical offset for resistance - 0.035 Ohm, for capacitance - 0.3pF

** capacitors with Cx<5pF can be measured only with manual settings.

p/n ST52CAD-IN2