

Comparison of ST3, ST5, ST5L Model of Smart Tweezers and LCR-Reader					
Feature	Old ST Model	ST5	ST5L	ST5S	LCR-Reader
Automatic LCR Measurement	Yes	Yes	Yes	Yes	Yes
Manual LCR Measurement	Yes	Yes	Yes	Yes	Yes
Diode Test	Yes	Yes	Yes	Yes	No
Continuity Test	Yes	Yes	Yes	Yes	No
DC Voltage Measurement	Yes	No	No	No	No
AC Voltage Measurement / Trace	Yes	No	No	No	No
Rechargeable Batteries	Optional	Standard	Standard	Standard	Standard
Charger and Micro-USB Cable	Optional	Standard	Standard	Standard	Optional
Designated ESR Measurement	No	Yes	Yes	Yes	Yes
Automatic Offset Subtraction	No	Yes	Yes	Yes	No
Component Sorting	No	Yes	Yes	Yes	No
Technical Specs					
Test Frequency	0.1, 0.12, 1, 10 kHz +/- 0.25%	0.1, 0.12, 1, 10 kHz +/- 0.005%	0.1, 0.12, 1, 10 kHz +/- 0.005%	0.1, 0.12, 1, 10 kHz +/- 0.005%	0.1, 0.12, 1, 10 kHz +/- 0.5%
Test Signal Level	0.32 +/- 10% Vrms	0.25, 0.5, 1.0 +/- 5% Vrms	0.25, 0.5 +/- 5% Vrms	0.25, 0.5, 1.0 +/- 5% Vrms	0.25, 0.5 +/- 5% Vrms
Source Impedance	620 Ohms +/- 5%	62.5Ω/1kΩ/16kΩ +/- 1%	62.5Ω/1kΩ/16kΩ +/- 1%	62.5Ω/1kΩ/16kΩ +/- 1%	62.5Ω/1kΩ/16kΩ +/- 1%
Typical Accuracy					
Resistance	1%	0.20%	0.50%	0.20%	1.00%
Capacitance	3%	0.50%	0.50%	0.50%	1.00%
Inductance	3%	0.50%	0.50%	0.50%	1.00%
Measurement Range					
Resistance	0.1 Ohm to 10 Mohms	0.1 Ohm to 10 Mohms	0.1 Ohm to 10 Mohms	0.1 Ohms to 10 Mohms	0.1 Ohm to 10 Mohms
Capacitance	0.5 pF to 5 mF	0.5 pF to 1 mF	0.5 pF to 1 mF	0.5 pF to 1 mF	10 pF to 1 mF
Inductance	0.5 uH to 1 H	0.5 uH to 1 H	0.5 uH to 1 H	0.5 uH to 1 H	0.5 uH to 1 H