

| Comparison of ST3, ST5, ST5L Model of Smart Tweezers and LCR-Reader | | | | |
|--|--------------------------------|---------------------------------|---------------------------------|-------------------------------|
| Feature | Old ST Model | New Model ST5 | New Model ST5L | LCR-Reader |
| Automatic LCR Measurement | Yes | Yes | Yes | Yes |
| Manual LCR Measurement | Yes | Yes | Yes | Yes |
| Diode Test | Yes | Yes | Yes | No |
| Continuity Test | Yes | Yes | Yes | No |
| DC Voltage Measurement | Yes | No | No | No |
| AC Voltage Measurement / Trace | Yes | No | No | No |
| Rechargeable Batteries | Optional | Standard | Standard | Standard |
| Charger and Micro-USB Cable | Optional | Standard | Standard | Optional |
| Designated ESR Measurement | No | Yes | Yes | Yes |
| Automatic Offset Subtraction | No | Yes | Yes | No |
| Component Sorting | No | 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 +/- 0.5% |
| 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 +/- 5% Vrms |
| Source Impedance | 620 Ohms +/- 5% | 62.5Ω/1kΩ/16kΩ +/- 1% | 62.5Ω/1kΩ/16kΩ +/- 1% | 62.5Ω/1kΩ/16kΩ +/- 1% |
| Typical Accuracy | | | | |
| Resistance | 1% | 0.20% | 0.50% | 1.00% |
| Capacitance | 3% | 0.50% | 0.50% | 1.00% |
| Inductance | 3% | 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 Ohm to 10 Mohms |
| Capacitance | 0.5 pF to 5 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 |