

Smart Tweezers

Detailed Accuracy Specifications

**Accuracy is specified at temperature 25C (82F),
With relative humidity 60%**

RESISTANCE

Range	Accuracy %	Resolution	Test Frequency
0.00-1.00 Ohm*	±5	0.01 Ohm	0.96 kHz
1.00-10.0 Ohm*	±1	0.01 Ohm	0.96 kHz
10.0-100 Ohm	±1	0.1 Ohm	0.96 kHz
100 Ohm-1.00 KOhm	±1	0.1 Ohm	0.96 kHz
1.00 -100 KOhm	±1	1.0 Ohm	0.96 kHz
100 KOhm – 1.00 MOhm	±1	10 Ohm	0.96 kHz
1.00 MOhm – 5.00 MOhm	±3	100 Ohm	0.96 kHz

* - better accuracy with offset calculation

CAPACITANCE

Range	Accuracy %	Resolution	Test Frequency
0.01-1.00 pF*	± 10	0.1 pF	9.62kHz
1.00-10.0 pF*	±3	0.1 pF	9.62kHz
10.0-100 pF	±3	1.0 pF	9.62kHz
100 pF-1.00 nF	±3	1.0 pF	9.62kHz

* - better accuracy with offset calculation

100 pF-1.00 nF	±3	1.0 pF	0.96 kHz
1.00 nF -100 nF	±3	1.0 pF	0.96 kHz
100 nF – 1.00 uF	±3	10 pF	0.96 kHz

1.00 uF – 10.0 uF	±3	0.01 uF	0.1 kHz
10.0 uF – 100 uF	±5	0.1uF	0.1kHz
100 uF – 500 uF	±10	0.1uF	0.1kHz

INDUCTANCE

Range	Accuracy %	Resolution	Test Frequency
1.00 uH-10.0 uH*	±5	0.1 uH	9.62 kHz
10.0-100 uH	±3	0.1 uH	9.62 kHz
100-1.00 mH	±3	1 uH	0.96 kHz

* - better accuracy with offset calculation

1.00-10.0 mH	±3	10.0 uH	0.1 kHz
10.0 -100 mH	±5	10.0 uH	0.1 kHz
100 mH – 1.00 H	±5	100 uH	0.1 kHz

AUTOMATIC MEASUREMENT MODE

Range	Test Frequency
Resistance	0.1 Ohm - 5.0 MOhm
Capacitance	0.1 - 1000pF
	1nF – 1uF
	1uF – 1000uF
Inductance	0.1uH – 100uH
	100uH – 1mH
	1mH – 1H