



EXCELTA[®]

SINCE 1957



IntelliTweezer[®]

Intelligently designed to make locating a component a breeze.

The new IntelliTweezer[®] features a unique patented mechanical and electronic design that incorporates a built-in direct precision SMD probe designed for component evaluation on the production line, component impedance testing and sorting of SMD components.

TM-500 Features:

- ★ 0.2-0.5% base measurement accuracy
- ★ Manual C, R, L, Z and ESR modes
- ★ Adjustable test signal levels
- ★ Diode Polarity/Short Testing
- ★ Secondary D, Q and ESR parameters

Technical Specifications

AC test mode Test frequency:	1 kHz, 10 kHz, 120 Hz, 100 Hz
Test frequency accuracy:	50 PPM (0.005%)
Test signal level:	0.5/1.0 +/- 5% Vrms Sine wave
Source impedance:	100Ω +/- 1%

Measurement Ranges

Resistance R:	0.05 Ω to 9.9 MΩ
Capacitance C:	0.5 pF to 4999 μF
Inductance L:	0.5 uH to 999 mH
Quality factor Q:	0.001 to 1000
Dissipation factor D:	0.001 to 1000

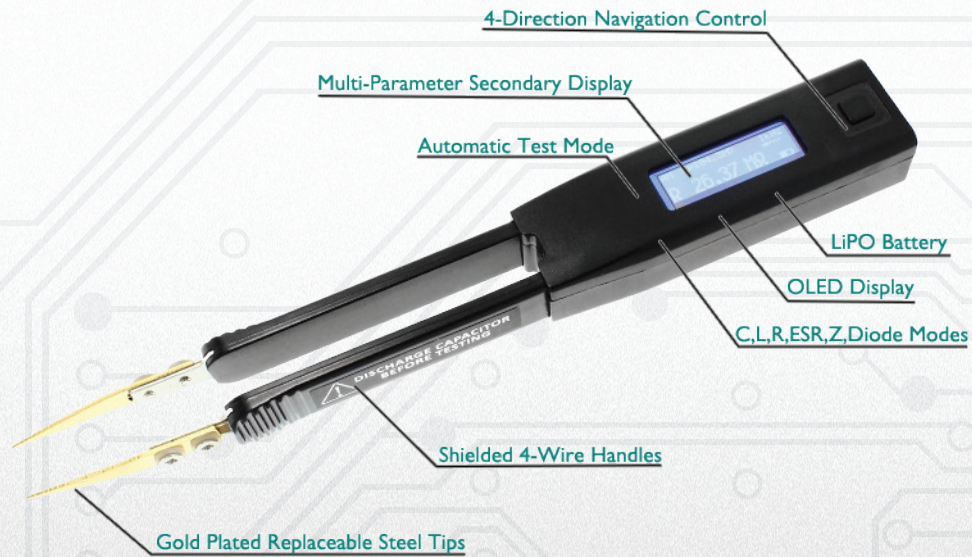


EXCELTA[®]
SINCE 1957

60 Easy Street | Buellton | CA | 93427
T: 805.686.4686 | F: 805.686.9005 | www.excelta.com



The all new *IntelliTweezer*® by **EXCELTA**® SINCE 1957



Physical Specifications

Operating Temperature:	0 °C to +50 °C
Storage Temperature:	-40 °C to +70 °C
Relative Humidity:	0 % to 90 % (0 °C to 35 °C) 0 % to 70 % (35 °C to 55 °C)
Altitude Operating:	0-2000 meters
Battery Type:	3.7 V LiPO rechargeable 150 mAh
Typical Charge Time:	2.5 Hours
Electromagnetic Compatibility (EMC):	Susceptibility and Emission: CE 89/336, FCC 15 part B
Size:	14.0 x 2.5 x 3.0 cm (3.94 x 0.9 x 1.5 in)
Weight:	53 grams (0.11lb)
Warranty:	1 year

Basic Specifications

Measured Parameters:	L, C, R, ESR, D, Q
Measuring Frequencies:	100 Hz, 120 Hz, 1 kHz, 10 kHz
Measurement Rate:	1 time per second
Resistance:	0.05 Ohms to 9.9 MOhms
Capacitance:	0.5 pF to 4,999 µF
Inductance:	0.5 µH to 999 mH
Dissipation Factor:	0.001 to 1000

Accuracy Specifications

Accuracy is specified at 18°C to 28°C (64°F to 82°F), with relative humidity to 90%.

Resistance Accuracy:	0.2% in range 100 R to 10 K, 0.5% in range 1 R to 1 M
Capacitance Accuracy:	0.2% in range 10 nF to 10 µF, 0.5% in range 100 pF to 1 mF
Inductance Accuracy:	0.2% in range 10 mH to 100 mH, 0.5% in range 100 µH to 1H

For more information, visit us on the web at www.excelta.com