

# Handheld High Accuracy LCR Meter

# Z580



Z580

- Handheld and Battery operated
- Can be used for “ESR” measurements
- 5 digit dual display LCD
- Measures L, C, R,  $|Z|$ , Q / D
- Displays Component value, Q or D,  $\Delta$ , or  $\Delta\%$
- Auto ranging and Range hold
- Built-in comparator with 4 Bin-sorting functions
- Open and short circuit calibration for accurate zeroing
- Series and Parallel equivalent circuit modes
- 100Hz, 120Hz, 1KHz and 10KHz test frequencies
- Warning alarm for Pass or Fail binning
- Auto Power Off
- Easy to use

## SPECIFICATIONS

### Measured Components

L, (Inductance), C (Capacitance), R (Resistance) and Z (Impedance)

Measurement Circuit configurations: Series and Parallel

### Measurements Resistance

Measured Parameter: R+ Q and  $|Z|$

Measurement Ranges: R: 0.0001 $\Omega$  to 999.9 M $\Omega$

### Inductance

Measured Parameter: L+Q

Measurement Range:

1 $\mu$ H to 9999H (100Hz & 120Hz)

0.1 $\mu$ H to 999.9(1 KHz and 10 KHz)

### Capacitance

Measured Parameters: C+D

Measurement Range:

1pF to 9999 $\mu$ F (100Hz and 120Hz)

0.1pF to 999.9pF (1KHz and 10KHz)

### D or Q

Measurement range: 0.0001 to 9999

### Test Environment

Test Voltages and Frequencies:

0.3V (100Hz, 120Hz and 1KHz)

0.1V (10KHz)

Measurement rate: 3 Measurements / sec

Ranging Auto or Hold

### Parameters Displayed

Primary Display: Measured value,  $\Delta$  absolute,  $\Delta\%$

Secondary Display: D or Q

### Measurement Accuracy

Basic accuracy:  $\pm 0.3\%$  (See user manual for accuracy conditions)

Zero input correction: Open and short circuit

### General Specifications

Power Requirements:

9 Volt rechargeable batteries or

12Volt @150mA AC to DC converter

Power Consumption: 25milliwatts

Operating Temperature:

0 to 40°C at  $\leq 85\%$  Relative Humidity

Dimensions:

Size: 3.54”(W) x7.9”(H) x 1.5”(D)

Weight: 1 lb

Accessories: Operating manual, 120V AC to 12V DC adapter, Test lead adapter with Kelvin clips, Rechargeable battery pack (installed)