

MOTECH 4080A - 100KHz LCR Meter

MT4080A Features

- Measurement parameters : Z, L, C, DCR, ESR, D, Q, and θ
- Test conditions :
100Hz, 120Hz, 1KHz, 10KHz, 100KHz, 1Vrms, 0.25Vrms, 0.05Vrms
- 0.2% basic accuracy
- Dual LCD display
- Very quickly response
- Fully auto/manual selection
- DC resistance measurement
- Rechargeable battery/ AC powered
- User friendly
- Infrared Interface (RS 232C)



The MT4080A LCR Meter is the first handheld meter of this type on the Market, with a wide range of test frequencies up to 100KHz, and many measurement parameters including Z, L, C, DCR, ESR, D, Q, and θ as well. The MT4080A is design for both component evaluation on the production line and fundamental impedance testing for bench-top applications. With a build-in direct test fixture you can test the lead components very easily. The 4-wire test clip can give a convenient connection to larger components and assemblies ith the accuracy of 4-wire testing.

The LCR meter offers fast, reliable, and versatile testing at low cost. Furthermore, the optional RS232C interface (IrDA) is an attractive, cost-effective solution for quality assurance and incoming inspection operations, making the MT4080A is the most advanced handheld LCR meter available on the market today.

MT4080A Specifications

Measurement Functions

Measurement parameters:

Z :Absolute value of impedance

L :Inductance

C :Capacitance

DCR:Direct current resistance

ESR:Equivalent series resistance

D :Dissipation factor

Q :Quality factor

θ :Phase angle

Combinations

DCR	Z	Ls, Cs	Lp, Cp
-	θ	D, Q, ESR	D, Q

Ranging: Auto-Range and Range-Hold

Relative: Mode

Cal: Open/Short calibration

RS232C:

Connector Type: IrDA

Transmission Singal: Tx and Rx

Flow Control: XON/XOFF

Test Singal

Frequency: 100Hz, 120Hz, 1KHz, 10KHz, 100KHz

Basic Accuracy: $\pm 0.4\%$

Level: 1Vrms, 0.25Vrms, 0.05Vrms, 1Vdc(for DCR)

Output Impedance: 100Ω , $\pm 5\%$

Display Range

parameter	Range
Z	$0.001\Omega \sim 9999M\Omega$
L	$0.001\mu H \sim 9999H$
C	$0.001pF \sim 9999F$
DCR	$0.000\Omega \sim 9999M\Omega$
ESR	$0.000\Omega \sim 9999\Omega$
D	$0.000 \sim 9999$
Q	$0.000 \sim 9999$
θ	$-180.0^\circ \sim 180.0^\circ$

Measuring Speed

Fast : 4.5 meas. /sec

Slow : 2.5 meas. /sec

General Specifications

Temperature : 0°C ~ 40°C(Operating), 20°C ~ 70°C(Storage)

Relative Humidity : Up to 85%

Battery Type : NiMh or Alkaline (2AA size)

Battery Charge : Constant current 150 mA approximately

Battery Operation Life : 2.5 Hours typical

AC Operation : 110V/220V AC, 60/50Hz with proper Adapter

Low Power Warning : under 2.2V

Dimensions : 6.9" x 3.4" x 1.9" (LxWxH) (174mm x 86mm x 48mm)

Weight : 470g

Order Information

MT4080A : 100Hz to 100KHz Handheld LCR Merter

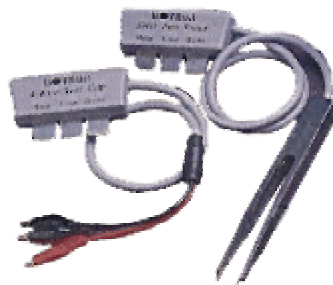
Standard Accessories



DC 6V power adapter

AA-Size Ni-Mh rechargeable battery

Optional Test Fixtures/Accessories



TL08A SMD test probe

TL08B 4-wire test clips

TL08C 4-wire Kelvin clips

Carry case

RS232 To Infrared Adapter