

Atlas LCR

passive component analyser

Model: LCR40

PEAK[®]

electronic design ltd

PRODUCT BRIEF

World's First

The *Atlas LCR* is an advanced instrument that greatly simplifies the testing of passive components.

Traditional LCR bridges are inherently complex and very time consuming to use.

The *Atlas LCR* does everything automatically, it tells you the component type in addition to component value data.

What's more, the *Atlas LCR* automatically selects the best signal level and frequency for the particular component under test.

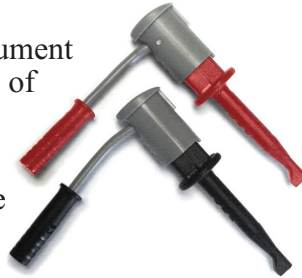
Easy to use

Just clip the universal test leads to your component and press the test button. In seconds, the *Atlas LCR* will identify the type of component (Inductor, Capacitor or Resistor) together with the component's main value. Additionally, further component data is also displayed, such as the DC resistance of an inductor.

The test frequency is automatically selected to suit the component under test and this is also confirmed on the scrollable display.

Flexible

The *Atlas LCR* is supplied with our brand new universal 2mm connectors including a pair of gold hook probes. The 2mm plugs are compatible with many probe types including our new improved SMD Tweezers and Crocs. Other accessories are available too, such as a padded carry case, spare batteries and more.



Instrument dimensions:
103mm x 72mm x 20mm

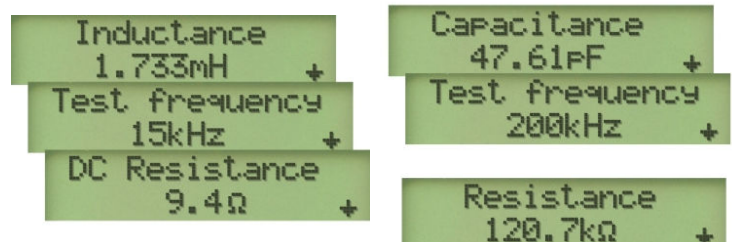
| Parameter | Min | Typ | Max | Note |
|--------------------------------|--|------------------------|---------|----------|
| Resistance | range | 1Ω | | 2MΩ |
| | resolution | 0.3 Ω | 0.6Ω | |
| | accuracy | Typically ±1.0% ±1.2Ω | | 1,2,6 |
| Capacitance | range | 0.5pF | | 10,000μF |
| | resolution | 0.2pF | 0.5pF | |
| | accuracy | Typically ±1.5% ±1.0pF | | 1,2,5 |
| Inductance | range | 1μH | | 10H |
| | resolution | 0.4μH | 0.8μH | |
| | accuracy | Typically ±1.5% ±1.6μH | | 1,2,4 |
| Peak test voltage (across O/C) | -1.05V | | +1.05V | |
| Peak test current (thru S/C) | -3.25mA | | +3.25mA | |
| Test frequency accuracy | 1kHz | -1.5% | ±1% | +1.5% |
| | 14.925kHz | -1.5% | ±1% | +1.5% |
| | 200kHz | -1.5% | ±1% | +1.5% |
| Sine purity | Typically -60dB 3 rd harmonic | | | |
| Operating temperature range | 10°C | | 40°C | 3 |
| Battery operating voltage | 8.5V | | 13V | |

Notes:

1. Within 12 months of factory calibration. Please contact us if you require a full re-calibration and certification of traceable calibration.
2. Specified at temperatures between 15°C and 30°C.
3. Subject to acceptable LCD visibility.
4. For inductance between 100uH and 100mH.
5. For capacitance between 200pF and 500nF.
6. For resistance between 10R and 1MR.

Feature Summary

- Automatic component identification.
- Automatic test frequency selection (DC, 1kHz, 15kHz, 200kHz).
- Delayed or instant analysis (for hands free operation).
- Auto power-off.
- Non-volatile probe and test lead compensation.
- Interchangeable probes sets.
- Automatic ranging and scaling with real units display.
- 1% basic resistance accuracy.
- 1.5% basic inductance/capacitance accuracy.



Please note that specifications of our products are subject to change without notice. E&OE.

08/12

Peak Electronic Design Limited

Atlas House, 2 Kiln Lane, Harpur Hill Business Park, Buxton, Derbyshire, SK17 9JL. Tel.+44 (0)1298 70012, Fax. +44 (0)1298 70046

See us on the Web: www.peakelec.co.uk Email: sales@peakelec.co.uk Twitter: @peakatlas