

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.

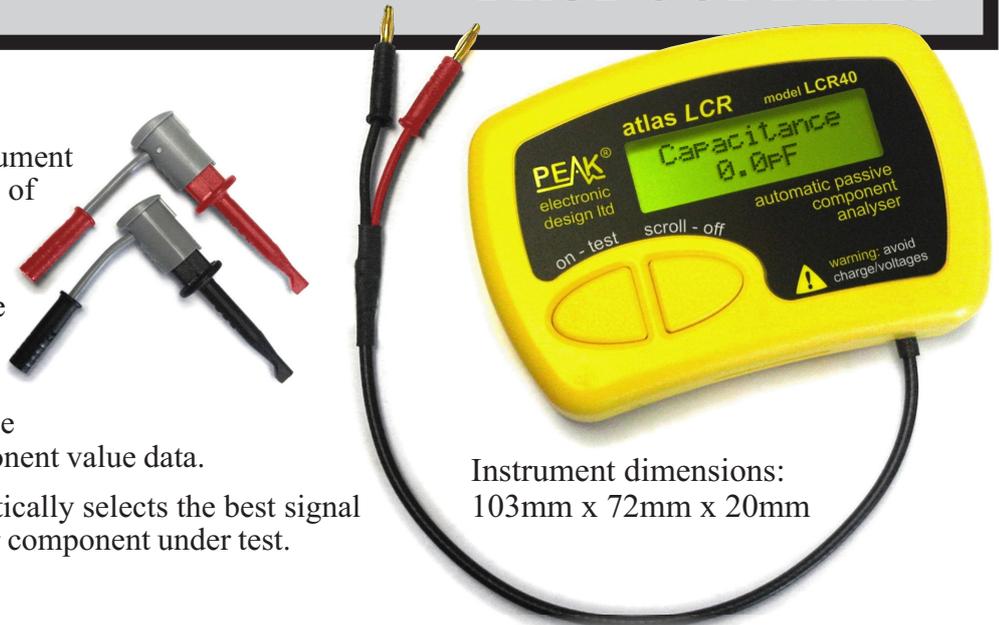
Easy to use

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.

Inductance
1.733mH

Test frequency
15kHz

DC Resistance
12.6Ω

Capacitance
47.3pF

Test frequency
200kHz

Resistance
120.7kΩ

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

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