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.

It doesn't get easier than this!

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 new detachable micro-hooks, allowing the use of the optional SMD Tweezers, long reach grabbers and crocodile probes. Other accessories are available too, such as a padded carry case, spare batteries and more.

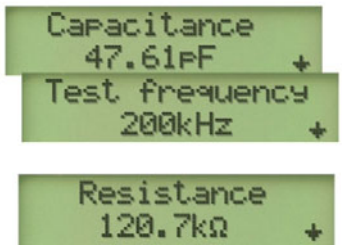
Parameter		Min	Typ	Max	Note
Inductance	range	1µH		10H	
	resolution	0.4µH	0.8µH		
	accuracy	±1% ±1.6µH			1,2,4
Capacitance	range	0.4pF		10,000µF	
	resolution	0.1pF	0.3pF		
	accuracy	±1% ±0.3pF			1,2,5
Resistance	range	1Ω		2MΩ	
	resolution	0.3Ω	0.6Ω		
	accuracy	±1% ±0.6Ω			1,2,6
Peak test voltage		-1.05V		+1.05V	
Peak test current		-3.25mA		+3.25mA	
Test frequency accuracy	1kHz	-11%		+11%	
	15kHz	-11%		+11%	
	200kHz	-100ppm		+100ppm	
Sine purity		-60dB 2nd 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 accuracy.



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