

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 SMT Tweezers, prods and chunky grabbers.



Parameter		Min	Typ	Max	Note
Inductance	range	1μH		10H	
	resolution	0.4μH	0.8μH		
	accuracy	±1% ±0.8μH			1,2
Capacitance	range	0.4pF		10mF	
	resolution	0.1pF	0.3pF		
	accuracy	±1% ±0.3pF			1,2
Resistance	range	1R		2MR	
	resolution	0.3R	0.6R		
	accuracy	±1% ±0.6R			1,2
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 2 nd 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.

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.

Capacitance
103.4pF
Test Frequency
200kHz

Inductance
149.6mH
DC Resistance
1.6 ohms
Test Frequency
1kHz

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

11/02

peak electronic design limited

Atlas House, Kiln Lane, Harpur Hill Ind. Est., 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