

# Atlas LCR45

passive component impedance meter

Model: LCR45

**PEAK**  
electronic design ltd

**PRELIMINARY PRODUCT DATA**

## Advanced Maths

The LCR45 builds on the success of the LCR40 Passive Component Analyser. With a new micro, including 12 bit ADCs and new software written from the ground up, the LCR45 is more than just evolution.

This new instrument incorporates advanced maths, based on Complex Impedance analysis. This allows for enhanced component value measurement as well as a comprehensive and detailed impedance display.

## Auto and Manual Modes

Now you have the benefit of speed and simplicity with the fully automatic mode combined with the flexibility of manual modes.

The LCR45 can automatically determine the component type being tested, alternatively, you can select the component type manually. This is particularly useful for components that may have more unusual characteristics. The test frequency can be left in automatic mode, yielding the best possible measurement resolution. For some components you may want to specify the test frequency yourself.

## Flexible Measurement Display

The detailed measurements can be presented in a variety of ways. The first measurement display is the summary of the component type and its value(s). The second screen is the full complex impedance value (shown as a complex number). Finally, the impedance can be seen in polar form, of magnitude and phase.



Continuous measurements with hold function

### Component Summary

```
Inductor 23.6Ω%
L=123.4μH 200kΩ
```

### Complex Impedance

```
Impedance 200kΩ
+25.6 +j155.1Ω
```

### Magnitude and Phase

```
Mag/Phase 200kΩ
157.2Ω +80.6°
```

## Main Features

- Supplied with gold plated removable hook probes.
- Fluid measurements with hold function.
- Automatic or manual component type.
- Automatic or manual test frequency, DC, 1kHz, 15kHz or 200kHz.
- Enhanced measurement resolution: 0.2μH, 0.2pF and 0.2 Ohms.
- Easy menu system for user settings.
- Enhanced compensation for component parasitics and losses (such as core losses etc).
- Automatic or manual power-off.

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

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Parameter		Min	Typ	Max
Resistance	range	0Ω		2MΩ
	resolution	0.1 Ω	0.2Ω	
	accuracy	Typically ±1.0% ±0.6 Ω		
Capacitance	range	0pF		10,000μF
	resolution	0.1pF	0.2pF	
	accuracy	Typically ±1.5% ±0.6pF		
Inductance	range	0μH		10H
	resolution	0.1μH	0.2μH	
	accuracy	Typically ±1.5% ±0.6μH		
Passive Component Impedance	Re & Im	Typically ±1.5% ±10 LSD		
	Magnitude	Typically ±1.5% ±10 LSD		
	Phase	Typically ±5°		
Measurement Sample Rate		0.5Hz	1.5Hz	2Hz
Peak test voltage (across O/C)		-1.05V		+1.05V
Peak test current (thru S/C)		-3.25mA		+3.25mA
Test frequency accuracy	1kHz	Typically ±0.5%		
	14.9254kHz			
	200kHz			
Sine purity		Typically -60dB 3 <sup>rd</sup> harmonic		
Operating temperature range		10°C		40°C
Battery operating voltage		8.5V		13V

### Peak Electronic Design Limited

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# DCA Pro

advanced semiconductor component analyser

Model: DCA75

# PEAK

electronic design ltd

## PRODUCT BRIEF

### Handheld

The new DCA Pro (model DCA75) combines ease-of-use with amazing features.

The DCA Pro can automatically identify a huge range of semiconductors, automatically identify pinouts and measure detailed parameters.

### It's well connected too...

Connect the DCA Pro to your PC and a whole world of data is opened up. You can perform a huge range of curve tracing functions (just like you see in datasheets). The curves are for your actual component, not the manufacturer's "typical" curves.

Export your curves to Excel (for further analysis or graphing), export to Word for documenting or attach captured data to an email.

PC software is supplied on a Peak branded USB flash drive, so it's fast and easy to install. Software supports Windows from XP onwards.

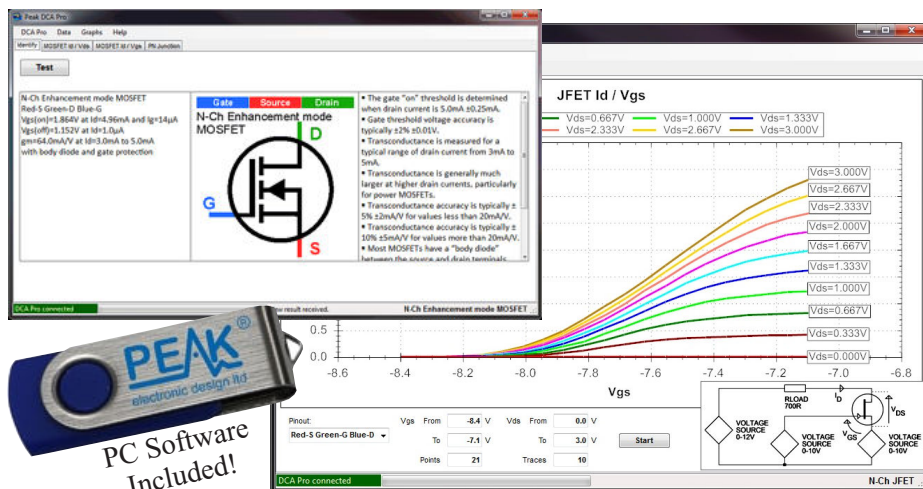
New features can be easily installed by means of the free lifetime updates online.

### Summary Features

- Connect any way round.
- Automatic component type identification.
- Automatic pinout identification.
- Transistor gain measurement.
- MOSFET gate threshold measurement.
- MOSFET and JFET transconductance measurement.
- PN junction characteristics measurements.
- Leakage current measurement.
- Auto power on and power off.
- Ultra-slim and compact design.
- Single AAA battery included, (not required when USB connected).

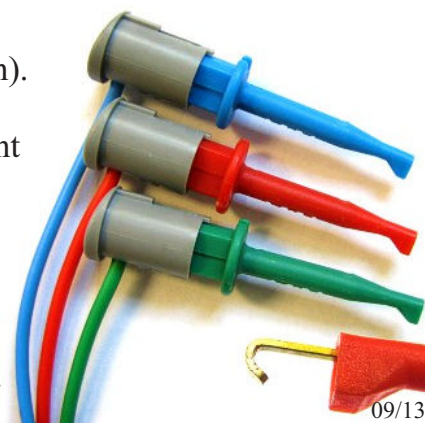


Detailed component information on your PC, complete with curve tracing functions.



### Supported Parts Include

- Transistors (Germanium and Silicon).
- Darlingtons.
- MOSFETs and IGBTs (Enhancement mode and depletion mode types).
- Voltage Regulators.
- Junction FETs.
- Low power thyristors and triacs.
- LEDs (including bicolour types).
- Diodes, Zeners and diode networks.



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