



# Technical Data Sheet

## VA520B

Electrical Tester  
LCR Meter



## Application

This multi-function LCR is a portable instrument designed with microprocessor control and low power consumption. It can measure 6 basic parameters: inductance L, capacitance C, AC resistance R, DC resistance DCR, dissipation factor D and quality factor Q. The instrument can easily communicate with PC and realize remote control through USB interface. With battery external power supply, the meter is ideal for field and portable applications, such as component inspection at fixed place, and immediate measurement by buyer and maintenance personnel.

## Product Features

Auto LCR check and measurement	√
Analog bar display	√
Automatic power off	√
Mini-USB interface	√
Sorting function	√
Relative measurement	√
Data hold	√

## Product Specifications

Parameter	Primary	DCR: DC Resistance]
	Secondary	θ: phase angle
		D: dissipation factor
		ESR: equivalent series resistance
		Q: quality factor
		Rp: equivalent parallel resistance
Measurement	L	20mH~20KH
		2000μH~2000H
		200μH~20H
		20μH~200mH
	C	20nF~20mF
		2000pF~2mF
		200pF~200μF
		200pF~20μF
	R	200Ω~200MΩ
		20Ω~200MΩ
		20Ω~20MΩ
		20Ω~2MΩ
		200~200M
		0.001~1999
0.00°C ~± 180.0°C (32°F ~± 7.02)		

## Product Specifications

Basic Accuracy		0.30%
Resolution		0.01%
Frequency		100/120/1K/10K/100KHz
Display		Digital + analog bar
Display Counts		19,999/1,999 Dual LCD
Test Level		0.6Vrms
Range Mode		Auto and Hold
Equivalent Circuit		Parallel and Series
Calibration Function		Open / Short
Interface		Mini-USB
Measurement Speed		Appx. 1.2 times/second
Measurement Terminal		4 - terminal
Power		AAA*6 Battery or External power supply
Auto Power off		5 min.(with batttery)
Operating Environment	Temperature	0°C ~40°C ( 32°F~104°F)
-	Humidity	90%RH (40°C/ 104°F, no condensation)
Storage Temperature		-25°C ~ 50°C (-13°F~122°F)



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