

DATA SHEET

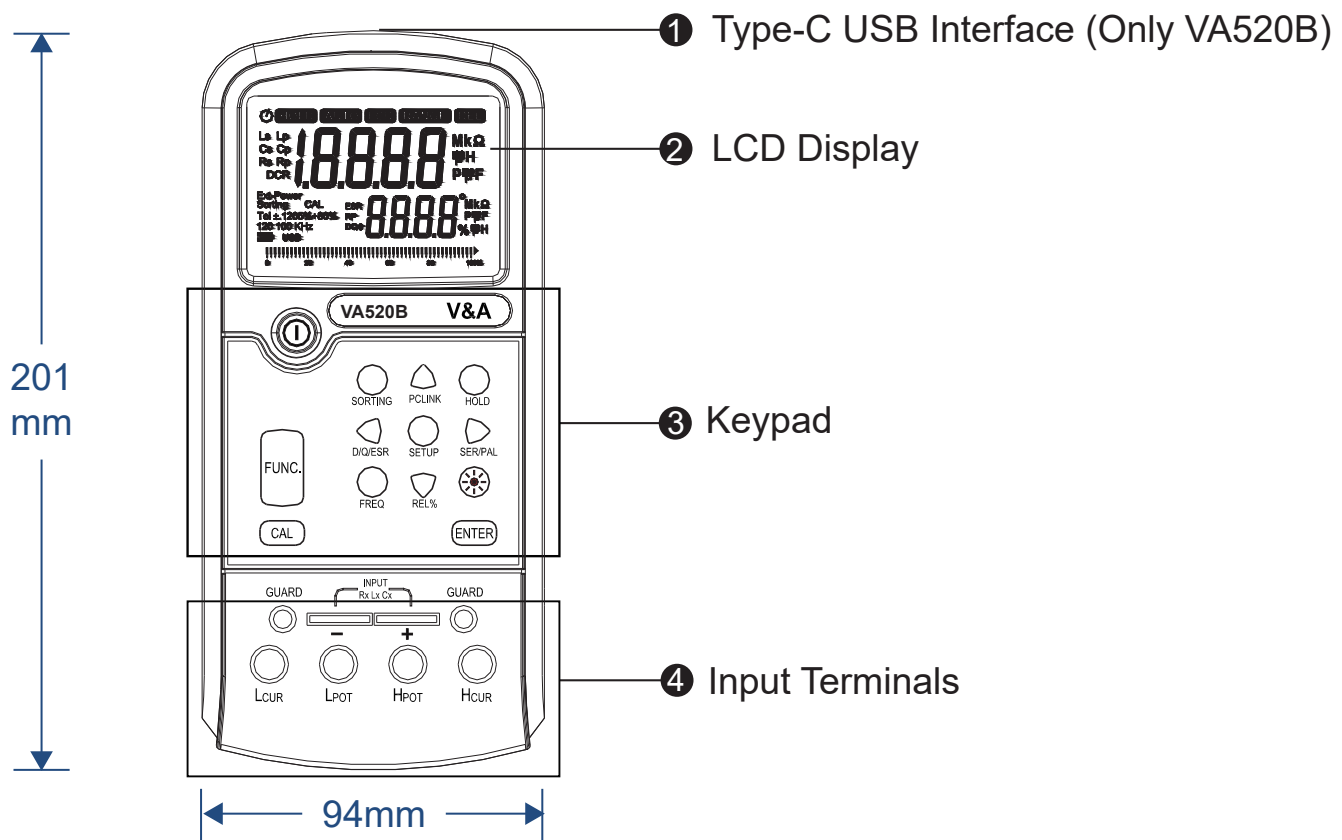
LCR METER VA520/VA520B

PRODUCT HIGHLIGHTS

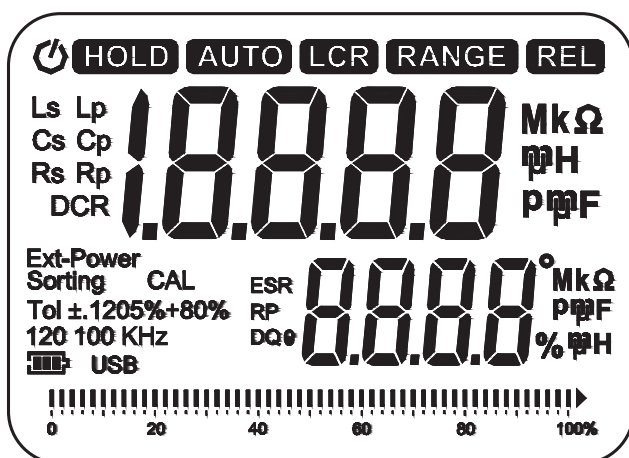


- 19999/1999 Counts LCR Meter
- Basic Accuracy: 0.3% with Resolution of 0.01%
- Analog Bar Display
- Measurement Frequency up to 100kHz
- Type-C USB Interface (Model Dependent)
- Auto LCR Smart Check and Measurement
- Sorting Function
- Relative Measurement
- Data Hold
- Backlight, Full Angle for LCD Display
- 4-terminal Measurement Configuration
- Auto Power Off
- Battery Voltage Indication
- Battery 1.5V (AAA) x 6 / External Power Supply

1. PANEL AND CONSTRUCTURE



2. LCD AND SYMBOL



- Display/char. height: 7-segment characters/21.3 mm
- Number of digits: 4¹/₂ /19999 counts
- Overflow display: "OL" is displayed
- Polarity display: "₋" displayed automatically
- Sample rate: 1.2 times/sec for digital data

3. LCR METER SELECTION GUIDE

	VA520	VA520B
Parameter	Primary	DCR: DC resistance Ls/Cs: series inductance/capacitance 100kHz Lp/Cp: parallel inductance/capacitance 100kHz
	Secondary	θ : phase angle D: dissipation factor ESR: equivalent series resistance Q: quality factor Rp: equivalent parallel resistance
Measurement	L 100/120Hz: 20mH~20kH, 1kHz: 2000 μ H~2000H, 10kHz: 200 μ H~20H, 100kHz: 20 μ H~200mH C 100/120Hz: 20nF~20mF, 1kHz: 2000pF~2mF, 10kHz: 200pF~200 μ F, 100kHz: 200pF~20 μ F R 100/120Hz: 200 Ω ~200M Ω , 1kHz: 20 Ω ~200M Ω , 10kHz: 20 Ω ~20M Ω , 100kHz: 20 Ω ~2M Ω DCR: 200~200M, D/Q: 0.001~1999, θ : 0.00°~±180.0°	
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	0.6V rms	
Range Mode	Auto and hold	
Equivalent Circuit	Parallel and series	
Calibration Function	Open/short	
Measurement Speed	Appx. 1.2 times/second	
Measurement Terminal	4 - terminal	
Auto Power Off	5 minutes (with battery)	
Auto LCR Check and Measurement	●	
Analog Bar Display	●	
Automatic Power Off	●	
Sorting Function	●	
Relative Measurement	●	
Data Hold	●	
Type-C USB Interface	-	●
Power	1.5V battery (AAA) x 6 / External Power Supply	
Size	201 x 94 x 41 mm	
Weight	~424g (without battery)	

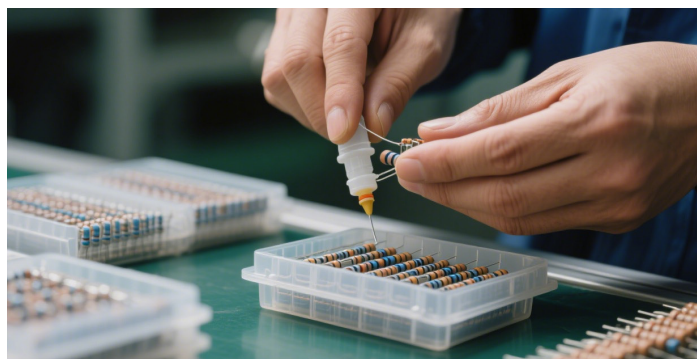
4. GENERAL SPECIFICATIONS

Function	Value
Pollution degree	2
Operating altitude	< 2000 m
Operating temperature/humidity	0°C~40°C, 32°F~104°F (≤90% RH, 40°C non-condensing)
Storage temperature/humidity	-25°C~50°C, -13°F~122°F (≤90% RH, 40°C non-condensing)
Typical temperature coefficient	0.1 x (specified accuracy) / °C (<18°C or >28°C)
Power supply	1.5V (AAA) x 6/External power supply
Dimension/weight	201(L) x 94(W) x 41(H) mm/Approx 424g (without battery)

5. SCOPE OF SUPPLY

Model Number	Scope of Supply	Quantity
VA520/VA520B	LCR Meter	1 Piece
	Shielding Clip Line	1 Piece
	Kelvin 4-terminal Measure Line	1 Piece
	Short Socket	1 Piece
	Open Socket	1 Piece
	Type-C USB Cable (VA520B Only)	1 Piece
	PC-Link Software CD (VA520B Only)	1 Piece
	User Manual	1 Piece
	Battery 1.5V (AAA)	6 Pieces
	Cloth Bag	1 Piece
	Box	1 Piece

6. APPLICATIONS



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