

## Product Fact Sheet

# Keysight U1700 Series Handheld Capacitance/LCR Meters

From the leader in LCR meters: LCR testing without the wait

Sharing a bench LCR meter is practical, but isn't always convenient. With the Keysight's Technologies, Inc. new line of handheld capacitance and LCR meters, you can perform quick, basic LCR measurements at your convenience. Better yet, our handheld models extend the tradition of our industry-leading benchtop units to a lower price point. Now, everyone on your team can be equipped for passive-component testing—on the bench or on the go—with the wait. Keysight now offers its latest capacitance and LCR meters - in all-new orange!



### Key features

1. Max, min and avg values recording
2. Visible and audible tolerance mode for component sorting
3. U1700 series LCR meters: Auto-calculation of phase angle (U1732A/U1732B only), dissipation factor and quality factor
4. One-touch access to capacitance, inductance (U1700 series LCR meters) and resistance (U1700 series LCR meters) measurements
5. Guard terminal for better noise immunity (to be used with SMD tweezers)
6. Dual display with backlight (U1701A/U1701B/U1732A/U1732B)
7. U1701A/U1701B: 11,000 counts resolution  
U1700 series LCR meters: 20,000 counts resolution
8. Data hold function to freeze readings
9. U1700 series LCR meters: 2 to 4 selectable test frequencies
10. Relative mode



Keysight's range of handheld capacitance and LCR meters offer you:

- Assurance of quality and reliability from the world's No.1 LCR meters manufacturer
- Affordable tools for quick, indicative LCR tests
- Convenient on-the-go LCR testing in small form factors

PC data logging with optional IR-to-USB cable



## Key specifications

U1701A / U1701B		U1731A / U1731B	U1732A / U1732B
<b>Display</b>			
Type	Segmented, transflective dual-display LCD	Segmented, transflective dual-display LCD	Segmented, transflective dual-display LCD
Resolution	11,000 counts	20,000 counts	20,000 counts
Backlit	Yes	No	Yes
<b>Resistance</b>			
Range	N/A	0.001 Ω to 9.999 MΩ	0.001 Ω to 9.999 MΩ
Accuracy	N/A	Up to 0.5% + 3 lsd	Up to 0.5% + 3 lsd
<b>Capacitance</b>			
Range	0.1 pF to 199.99 mF	0.1 pF to 19.99 mF	0.01 pF to 19.99 mF
Accuracy	Up to 0.5% + 3 lsd	Up to 0.7% + 3 lsd	Up to 0.7% + 3 lsd
<b>Inductance</b>			
Range	N/A	0.1 μH to 999.9 H	0.1 μH to 999.9 H
Accuracy	N/A	Up to 0.7% + 5 lsd	Up to 0.7% + 5 lsd
<b>Others</b>			
Dissipation factor	N/A	Yes	Yes
Quality factor	N/A	Yes	Yes
Ø measurement	N/A	No	Yes
Tolerance	1%, 5%, 10%, 20%	1%, 5%, 10%	1%, 5%, 10%, 20%
Compare	25 sets of non-volatile high/low limit settings	No	No
Test method/frequency	DC charge/discharge	Selectable 120 Hz/1 kHz	Selectable 100 Hz/120 Hz/1 kHz/10 kHz
Data logging to PC	Optional via IR-to-USB cable	Optional via IR-to-USB cable	Optional via IR-to-USB cable
External power	Optional via external power adapter	Optional via external power adapter	Optional via external power adapter

## Ordering information:

Each unit is shipped with:

- Quick Start Guide
- Alligator clip leads
- 9 V Alkaline battery
- Certificate of Calibration (CoC)



## Options and accessories

### KEYSIGHT SERVICES

Accelerate Technology Adoption. *Lower costs.*

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Keysight Services helps you improve productivity and product quality with our comprehensive service offerings of one-stop calibration, repair, asset management, technology refresh, consulting, training, and more.



U1174A soft carrying case



U1782A SMD tweezer



U5481A IR-to-USB cable



U1780A power adapter  
(power cord included  
based on country)