

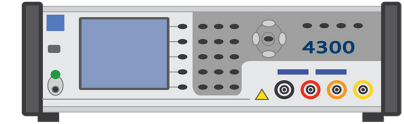
## Competitive Comparison

# Keysight E4980AL Precision LCR Meter versus WK 43100 LCR Meter

### Keysight E4980AL



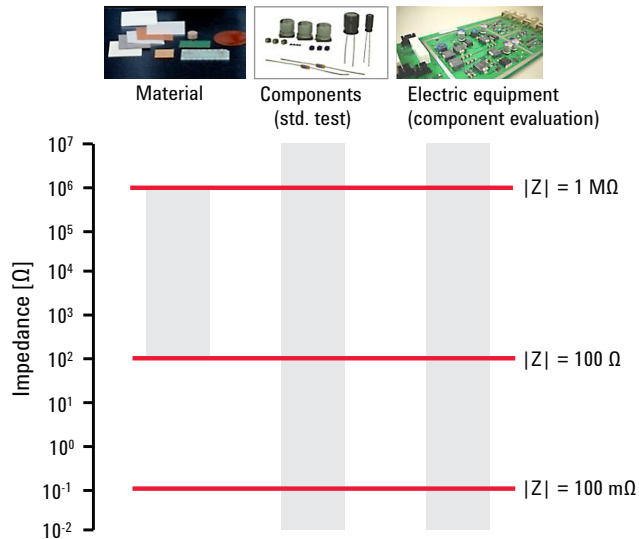
- Combination of accuracy, speed and versatility
- Wide variety of accessories



	Keysight E4980AL		WK 43100	
Frequency range	20 Hz to 1 MHz (Option 102)	✓	20 Hz to 1 MHz	✓
Test signal level	2 Vrms	✓	2 Vrms	✓
Test signal level monitor	Yes	✓	No	✗
ALC	Yes	✓	No	✗
Basic accuracy (freq. range)	0.05% (100 Hz to 1 MHz)	✓	0.1% (around 250 Hz to 1 kHz)	✗
Measurement speed for basic accuracy	118 msec (med. at 1 MHz)	✓	445 msec (slow at 100 kHz)	✗
Measurement accuracy for high/med/high/med/low Impedance	See next page	✓	See next page	✗
DC bias signal level	1.5 V, 2 V	✓	2 V	✗
DCR measurement	Yes	✓	Yes (Option R)	✓
Compensation	Open/Short/Load	✓	Open/Short	✗
Cable length correction	1/2/4 m	✓	No	✗
List sweep	Test frequency, test signal voltage/current (201 points)	✓	Test frequency (8 points)	✗
Comparator BIN sort	Yes	✓	Yes	✓
USB/LAN interface	Yes	✓	No	✗
Test accessory	Over 20 kinds	✓	7 kinds	✗

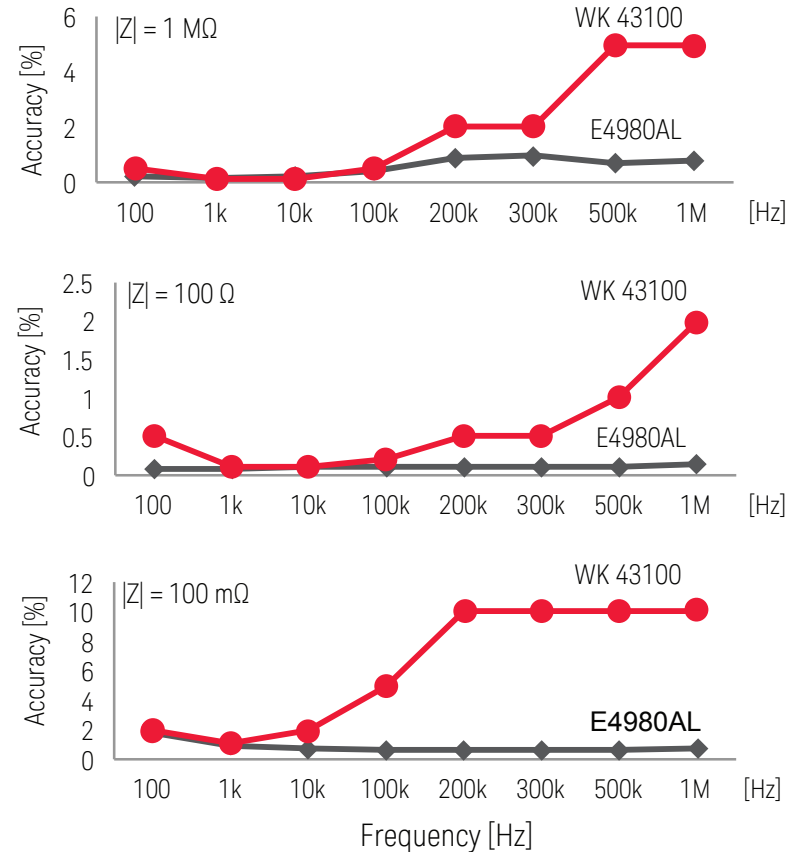
Sources: E4980A/E4980AL Data Sheet (Published in December 2014, 5989-4435EN)  
4310/4320/4350/43100 Product Specification Issue B

## Typical Impedance Range by DUT Category



For basic testing or evaluation of electronic components and materials, wide impedance measurement range and test frequency range are required. For example, the high-value capacitance is measured at 120 Hz, and the low-value capacitance is measured at 1 MHz.  
 e.g. 10 mF capacitor:  $|Z| = 133\text{ m}\Omega$  at 120 Hz  
 1 pF capacitor:  $|Z| = 159\text{ k}\Omega$  at 1 MHz

## Impedance Measurement Accuracy over Test Frequency



Sources: E4980A/E4980AL Data Sheet 5989-4435EN, 4310/4320/4350/43100 Product Specification

**Measurement condition:**

Test signal level: 1Vrms, cable length: 0 m, measurement speed: E4980AL med., WK 43100 slow

[www.keysight.com/find/E4980AL](http://www.keysight.com/find/E4980AL)