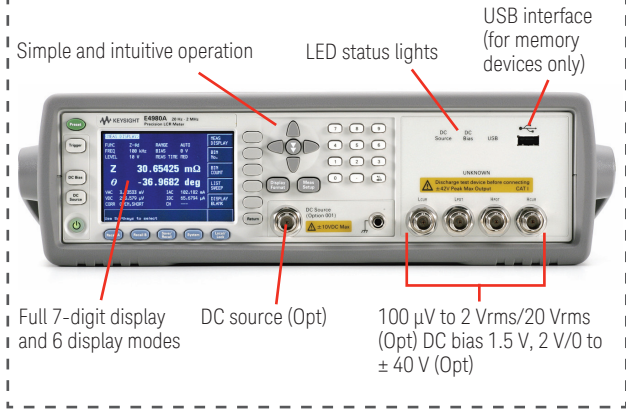


Keysight E4980A Precision LCR Meter 20 Hz to 2 MHz

An industry standard LCR meter

Keysight Technologies, Inc. E4980A precision LCR meter is an industry standard of high-end LCR meters which provides the best combination of accuracy, speed and versatility. Along with the widest variety of accessories, a broad range of component, semiconductor, and material measurement applications in general R&D and production environments can be addressed.

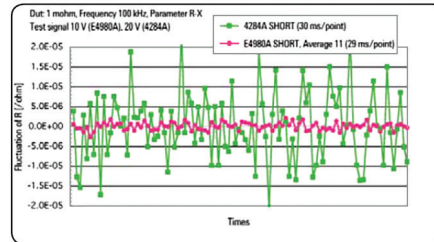


Key features

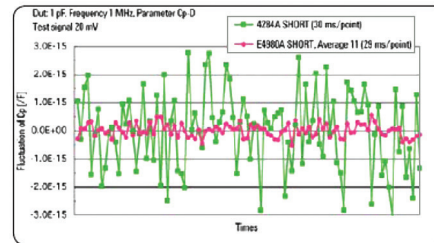
1. Accurate measurements

Exceptionally low noise at both low and high impedance to improve test quality

- 0.05% basic impedance accuracy
- Open/Short/Load compensation
- Test cable extension (1/2/4 m)



Measurement stability: E4980A vs. 4284A
Low impedance meas. 1 mΩ @100 kHz



High impedance meas. 1 pF @1 MHz

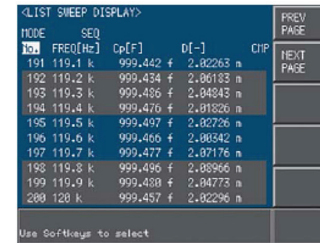
2. Fast measurement speed

Fast speed provides more throughput reducing cost of test

- 5.6 ms (SHORT), 88 ms (MED), 220 ms (LONG) @1 MHz

3. Measurement versatility

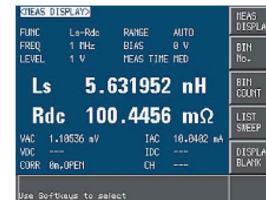
- 20 Hz to 2 MHz test frequency with 4-digit resolution
- 16 impedance parameters
- 100 μV to 2 Vrms, 1 μA to 20 mA variable test signal
- DC bias 1.5/2 V
- Auto-level control
- 201 points of programmable list sweep
- DC resistance (mandatory option)



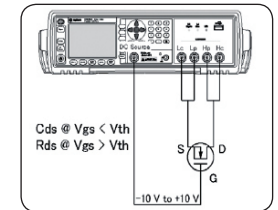
List sweep mode

4. Power and DC bias enhancement (Option 001)

- 0 to 20 Vrms/100 mArms test signal
- 0 to ± 40 V DC bias with 0.3 mV minimum resolution
- Second DC source controllable from 0 to ± 10 V
- DC bias current/voltage measurement capabilities



DCR measurement



Meas. using DC source

Models

| Model | Description |
|--------|-------------------------------------|
| E4980A | Precision LCR Meter, 20 Hz to 2 MHz |

Options

| Model | Description |
|------------|---|
| E4980A-001 | Power and DC bias enhancement |
| E4980A-005 | Entry model (same accuracy, less speed) |
| E4980A-200 | DCR measurement (mandatory option) |
| E4980A-201 | Handler interface |
| E4980A-301 | Scanner interface |
| E4980A-710 | No interface |
| E4980A-ABA | English localization |
| E4980A-ABJ | Japanese localization |
| E4980A-1A7 | ISO 17025 compliant calibration |
| E4980A-A6J | ANSI Z540 compliant calibration |
| E4980A-1CM | Rack mount kit |

For more details on the option configuration, refer to the configuration guide 5989-8321EN.

Upgrade options

Refer to the configuration guide 5989-8321EN for the upgrades.

Application support literatures

| Literature | Publication number |
|--------------------------------|--------------------|
| Impedance measurement handbook | 5950-3000 |

Recommended accessories

| DUT | Fixture type | Model | Description |
|--------------|------------------|---------------------------------|--|
| Lead | Axial/radial | 16047A/E | Spring contact type (A)/Screw-lock type (E) |
| | Clip-type | 16089A/B/C (5 Hz to 100 kHz) | Large clips (A)/Medium clips (B)/IC clips (C) |
| SMD/ chip | SMD/chip | 16034E/G/H | Large contact (E)/Small contact (G)/ For array components (H) |
| | Tweezers-type | 16334A | Tweezers (cable length 1 m) |
| | Extension cable | 16048A/D/E | BNC test leads (1/2/4 m) |
| | External DC bias | 16065A | ± 200 Vmax |

For other accessories, refer to the configuration guide 5989-8321EN.

For additional literature and product information, refer to following literatures.

| Literature | Part number |
|---------------------|-------------|
| Brochure | 5989-4235EN |
| Data sheet | 5989-4435EN |
| Configuration guide | 5989-8321EN |



Three-Year Warranty

www.keysight.com/find/ThreeYearWarranty

Keysight's commitment to superior product quality and lower total cost of ownership. The only test and measurement company with three-year warranty standard on all instruments, worldwide.



Keysight Assurance Plans

www.keysight.com/find/AssurancePlans

Up to ten years of protection and no budgetary surprises to ensure your instruments are operating to specification, so you can rely on accurate measurements.