

# Keysight 4285A Precision LCR Meter

Frequency ranges: 75 kHz to 30 MHz

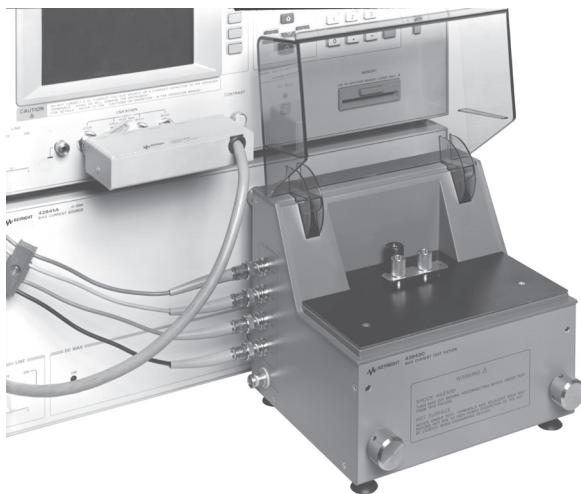
## A de-facto Standard for LCR Measurements in MHz Region

Keysight Technologies, Inc. 4285A precision LCR meter is cost-effective solution for component and material measurements. The 4285A offers a higher test frequency range, from 75 kHz to 30 MHz, with its incomparable accuracy, definable test signal level, and expandability for a wide range of component and material measurement applications in general R&D and production environments.



### Key features

1. Accurate measurements in high frequency range
  - 75 kHz to 30 MHz wide frequency coverage
  - 0.1 % basic impedance accuracy with 0.001 nH resolution
  - Open/Short/Load compensation at any 7 points
  - Test cable extension (1/2 m)
2. Measurement versatility
  - Auto-level control
  - 10 points of programmable list sweep
  - 0 to  $\pm 40$  V DC bias (Option 001)
  - Bias current interface (Option 002) up to 10 A DC bias
3. System integration capability
  - Handler (Option 201/202)/scanner (Option 301)/GPIB interfaces
  - Multi-channel compensation (Option 301) up to 90 scanning channels



42842C bias current fixture



Measurement using 42841A bias current source



## Models

Model	Description
4285A	Precision LCR Meter, 75 kHz to 30 MHz

## Options

Model	Description
4285A-001	DC bias
4285A-002	Bias current interface
4285A-004	Memory card
4285A-201	General purpose handler interface
4285A-202	Specific handler interface
4285A-301	Scanner interface
4285A-ABA	English manual
4285A-ABJ	Japanese manual
4285A-1A7	ISO 17025 compliant calibration
4285A-A6J	ANSI Z540 compliant calibration
4285A-908	Rack mount kit

For more details on the option configuration, refer to the technical overview 5952-1431.

## Upgrade options

Refer to the technical overview 5952-1431 for the upgrades.

## Application support literatures

Literature	Publication number
Impedance Measurement Handbook - 4th Edition - Application Note	5950-3000

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

Literature	Publication number
4284A/4285A Precision LCR Meter Family - Technical Overview	5952-1431
4285A Precision LCR Meter - Data Sheet	5963-5395E

## Recommended accessories

DUT	Fixture type	Model	Description
Lead	Axial/radial	16047A/D/E	Spring contact type (A/D)/Screw-lock type (E)
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	BNC test leads (1/2 m)
	External DC bias	16065A	± 200 V max., ≤ 2 MHz
Material	Dielectric	16451B	Permittivity, ≤ 30 MHz
	Dielectric (liquid)	16452A	Permittivity, ≤ 30 MHz

For high current DC bias and other accessories, refer to the technical overview 5952-1431.

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

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