

Keysight 4285A Precision LCR Meter

Frequency ranges: 75 kHz to 30 MHz

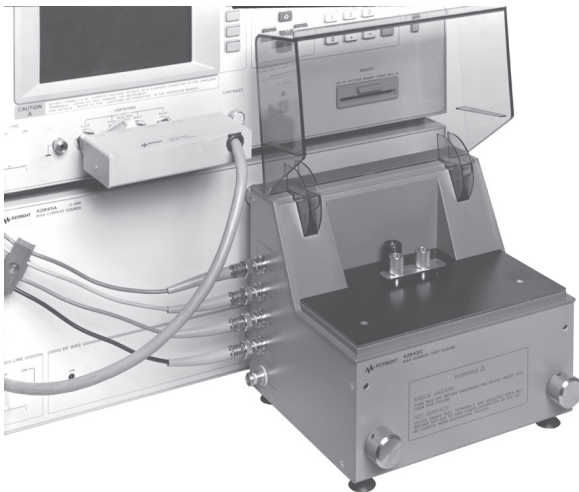
A de-facto Standard for LCR Measurements in MHz Region

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 ± 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.

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