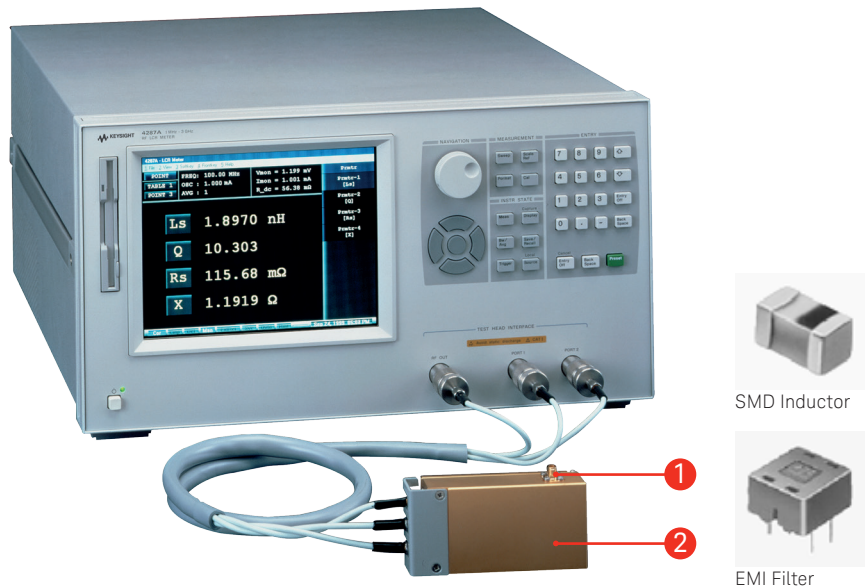


Keysight 4287A RF LCR Meter

Frequency ranges: 1 MHz to 3 GHz

A de-facto Standard for RF Inductor (L) Production Tests

The Keysight Technologies, Inc. 4287A is a high performance RF LCR meter best fit to production line testing of devices such as SMD inductors and EMI filters, where impedance testing at high frequencies is required.

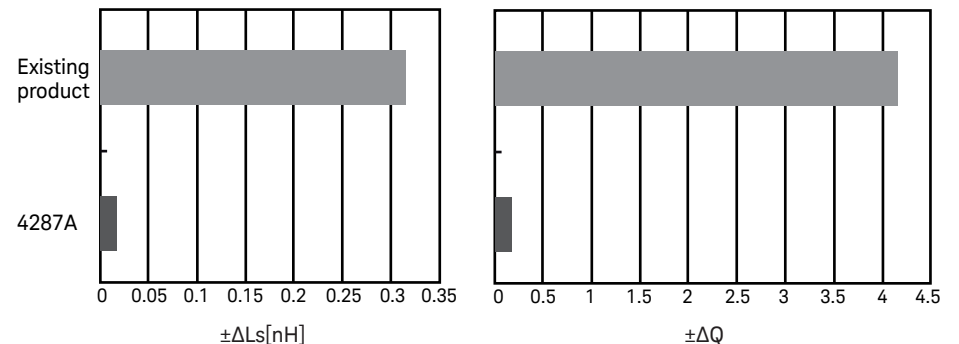


1. Small test head
2. 3.5 mm (female) test port

Key features

1. Accurate, reliable and fast measurements
 - 11 parameters: $|Z|$, $|Y|$, L, C, R, X, G, B, D, Q, θ
 - Measurement range from $0.2 \text{ }\Omega$ to $3 \text{ k}\Omega$ (within 10 % accuracy)
 - 1 % basic accuracy
 - Measurement time: 9 msec per point (max. speed)
 - Superior measurement repeatability at low test signal level with high speed
 - Sophisticated calibration/compensation method with calibration wizard function
2. Versatile measurement functions
 - Simultaneous 4-parameter display
 - List sweep up to 256 frequency points (= 32 points max./table x 8 table max.)
 - Statistical analysis function
3. System integration capability
 - GPIB, Handler and LAN Interface
 - Cable extension and small test head
 - Multi-function comparator
 - Contact check using DCR measurement function

Stability comparison at low signal level



Models

| Model | Description |
|-------|------------------------------|
| 4287A | RF LCR Meter, 1 MHz to 3 GHz |

Options

| Model | Description |
|-----------|----------------------------------|
| 4287A-004 | Working standard set |
| 4287A-020 | Test fixture extension cable set |
| 4287A-700 | 16195B calibration kit |
| 4287A-710 | Test fixture stand |
| 4287A-720 | 3.5 mm to 7 mm adapter |
| 4287A-810 | Keyboard, PS/2 |
| 4287A-820 | Mouse, PS/2 |
| 4287A-ABA | U.S. – English localization |
| 4287A-ABJ | Japan – Japanese localization |
| 4287A-1A7 | 17025 compliant calibration |
| 4287A-A6J | ANSI Z540 compliant calibration |

For more details on the option configuration, refer to the configuration guide 5989-8061EN.

Upgrade options

Refer to the configuration guide 5989-8061EN 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 |
|--|--------------------|
| 4287A RF LCR Meter - 1 MHz - 3 GHz - Technical Overview | 5968-5443E |
| 4287A RF LCR Meter 1 MHz - 3 GHz - Data Sheet | 5968-5758E |
| 4287A RF LCR Meter, 1 MHz to 3 GHz - Configuration Guide | 5989-8061EN |

Recommended accessories

| DUT | Fixture type | Model | Description |
|----------|------------------|--------------|--|
| Lead | Axial/radial | 16092A | ≤ 500 MHz |
| | | 16194A | ≤ 2 GHz, -55 to + 200 °C |
| SMD/chip | SMD/chip | 16092A | ≥ 1.6 x 0.8 (mm), ≤ 500 MHz |
| | | 16192A | ≥ 1.0 x 0.5 (mm), ≤ 2 GHz |
| | | 16196A/B/C/D | 1608 (A), 1005 (B), 0603 (C), 0402 (D) in mm code, ≤ 3 GHz |
| | | 16194A | ≤ 2 GHz, -55 to + 200 °C |
| | | 16197A | ≥ 0.6 x 0.3 (mm), ≤ 3 GHz |
| | External DC bias | 16200B | 0 to ± 40 V, ± 5 A, ≤ 1 GHz |

For other accessories, refer to the configuration guide 5989-8061EN.

www.keysight.com/find/lcrmeters

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