KEYSIGHT TECHNOLOGIES (AGILENT HP)

4287A

The Keysight (formerly Agilent) 4287A is an RF LCR meter designed for accurate, reliable, and fast measurements of electronic components in production line environments. Operating over a frequency range of 1 MHz to 3 GHz, it utilizes a direct current-voltage (RF I-V) measurement technique rather than a reflection-measurement technique. This approach yields accurate results over a wide impedance measurement range (200 mΩ to 3 kΩ) and superior repeatability at low test signal levels.

SPECIFICATIONS

Test Signal Characteristics

Test Frequency Range	1 MHz to 3 GHz
Test Frequency Resolution	100 kHz

Measurement Parameters

Measurement Parameters	|Z|, |Y|, L, C, R, G, D, Q, X, B, θ
Measurement Technique	Direct current-voltage (RF I-V)

Measurement Accuracy and Range

Impedance Measurement Range	200 mΩ to 3 kΩ
Basic Impedance Accuracy	1%

Measurement Speed and Triggering

Measurement Time (Fast)	9 ms

Measurement

Source Impedance	50 Ω (nominal)

Inputs & Outputs

Test Port Connector	7 mm (APC-7)

Control & Software

Trigger Sources	Internal, External, Manual, Bus

Features

Calibration Types	Open, Short, Load, Low-Loss Capacitor (LLC)

TECHNOLOGY

Direct current-voltage (RF I-V) measurement technique

APPLICATIONS

Electronic component testing in production lines