KEYSIGHT TECHNOLOGIES (AGILENT HP)

4194A

The Keysight (HP/Agilent) 4194A is an impedance/gain-phase analyzer combining precision impedance analysis with transmission gain/phase measurements. It provides integrated source/sweep control with graphic analysis and programmable operation via Auto Sequence Programming (ASP).

SPECIFICATIONS

General

Interfaces	GPIB (HP-IB) remote control
Display	Monochrome CRT graphical display
Measurement Modes	Impedance analysis; Gain/phase (transmission) analysis

Impedance Measurement Performance

Impedance Measurement Frequency Range	100 Hz - 40 MHz
Impedance Measurement Frequency Range (with 41941A/B)	10 kHz - 100 MHz
Impedance Range (with 41941A/B, 10 kHz - 100 MHz)	0.1 Ω - 1 MΩ
Measurement Parameters (Impedance)	|Z|, |Y|, θ, R, X, G, B, L, C, D, Q (1/D)

Gain-Phase Analysis Performance

Source Frequency Range (Gain-Phase)	10 Hz - 100 MHz
Measurement Functions (Gain/Phase)	Gain, Phase

User Interface and Display

Graphics Analysis Functions	On-screen graphical analysis capability

Connectivity and Remote Control

Programmability Feature	Auto Sequence Programming (ASP) — record/playback front-panel keystrokes

Options and Configurations

Accessory/Option Support	41941A/B accessory enables 10 kHz - 100 MHz impedance, 0.1 Ω - 1 MΩ range

APPLICATIONS

Impedance characterization of electronic components and circuits; transmission gain/phase testing; engineering evaluation and go/no-go testing, per manufacturer description.