

KEYSIGHT TECHNOLOGIES (AGILENT HP)

53310A

The Keysight (formerly Agilent / Hewlett-Packard) 53310A is a modulation domain analyzer designed to provide an intuitive, direct view of jitter, modulation, and frequency drift. By displaying changes in frequency or time-interval measurements over time—much like an oscilloscope displays voltage—the 53310A allows engineers to easily characterize digital communications systems, mechanical systems, and agile transmitters. It features automated setup, continuous measurement capabilities to prevent information loss, and built-in statistical analysis functions.

SPECIFICATIONS

General

Interfaces	HP-IB (IEEE-488)
Display	CRT
Setup & Operation	Single-button functions, automated setup

Physical

Operating Temperature	0 to +55 °C
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Analysis and Display Capabilities

Analysis Types	Jitter, Frequency Drift, Modulation, Peak-to-Peak Deviation, Carrier Frequency, Modulation Rate
Display Modes	Parameter vs. Time, Histogram
Statistical Functions	Automated Mean, Standard Deviation, Probability
Measurement Types	Continuous Frequency, Time Interval

Triggering and Arming

Triggering	Advanced triggering on frequency or time interval
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Input Specifications

Frequency Range (Channel A)	Up to 200 MHz
Frequency Range (Channel C)	Up to 2.5 GHz (Option 031 dependent)
Input Impedance	50 Ω or 1 M Ω (selectable)
Input Coupling	AC or DC (selectable)

Options & Configurations

Available Hardware Options	Option 010 (High-Stability Oven Timebase); Option 031 (2.5 GHz High Frequency Channel C)
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TECHNOLOGY

Modulation Domain Analysis

APPLICATIONS

Jitter Analysis / Frequency Drift Characterization / Modulation Analysis

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