

KEYSIGHT TECHNOLOGIES (AGILENT HP)

E5100A

The Keysight (Agilent/HP) E5100A is a high-speed network analyzer operating from 10 kHz to 180 MHz or 300 MHz. It is specifically designed for high-throughput production lines of electronic component manufacturers, particularly those producing resonators and filters. With a remarkably fast measurement speed of 0.04 ms/point and a high-speed processor, it significantly improves production efficiency. The instrument features a fine selection IF bandwidth for fast, low-noise measurements and supports IBASIC for easy automation.

SPECIFICATIONS

General

Interfaces	HP-IB (IEEE-488)
Display	6.5-inch color LCD
Mass Storage	Built-in 3.5-inch floppy disk drive (FDD)

Physical

Power Supply	90 to 132 V / 198 to 264 V, 47 to 63 Hz, 400 VA max
Operating Temperature	5 to 40 °C

Measurement Speed

Measurement Time per Point	0.04 ms/point (fastest)
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Measurement Capabilities

Built-in Automation/Programming	IBASIC
Target Application Functions	High-speed filter and resonator evaluation using waveform analysis commands

Options and Accessories

Phase Tracking Function	Available as Option
Evaporation Monitoring Function	Available as Option

Performance

Frequency Resolution	1 mHz
IF Bandwidth (IFBW)	10 Hz to 30 kHz
Dynamic Range	120 dB (at 10 Hz IFBW)
Measurement Parameters	Transmission, Reflection, S-parameters (configuration dependent)

Inputs & Outputs

Test Port Impedance	50 Ω
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Environmental

Storage Temperature	-20 to 60 °C
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TECHNOLOGY

Network Analysis

APPLICATIONS

Electronic Component Production (Resonators, Filters)

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