

KEYSIGHT TECHNOLOGIES (AGILENT HP)

E5061A

The Keysight / Agilent E5061A is a general-purpose RF Vector Network Analyzer from the ENA-L series, operating from 300 kHz to 1.5 GHz. It offers a solid foundation for basic S-parameter measurements with options for either Transmission/Reflection (T/R) or full two-port S-parameter test sets. Designed for manufacturing and R&D applications including CATV component testing, it provides 120 dB of dynamic range, exceptionally low trace noise, built-in VBA programming, and configurable 50 Ω or 75 Ω test port impedances.

SPECIFICATIONS

General

Display	10.4-inch color LCD
---------	---------------------

Physical

Power Supply	90 to 132 VAC / 198 to 264 VAC, 47 to 63 Hz, 350 VA max
Operating Temperature	5 to 40 °C
Weight	13.5 kg kg

Frequency Characteristics

Frequency Range	300 kHz to 1.5 GHz
Frequency Resolution	1 Hz

Test Port Output Characteristics

Test Port Impedance	50 Ω or 75 Ω (option dependent)
Test Port Connector Type	Type-N (female)

Measurement Capabilities

Test Set Architecture	Transmission/Reflection (T/R) or full two-port S-parameter (option dependent)
Maximum Number of Channels	4
Maximum Number of Traces per Channel	4
Automation	Built-in Visual Basic for Applications (VBA)
Sweep Types	Linear frequency, log frequency, segment, power
Measurement Parameters (T/R Test Set Options)	S11, S21
Measurement Parameters (S-Parameter Test Set Options)	S11, S21, S12, S22
Calibration Types	Response, 1-port, 2-port (S-parameter option dependent), enhanced response
Markers	Up to 10 independent markers per trace
Electronic Calibration (ECal)	Supported via USB ECal modules
Fault Location	Supported via Option 100 (Fault Location and Structural Return Loss)

Sweep Characteristics

Number of Data Points (Minimum)	2
Number of Data Points (Maximum)	1601

Performance

IF Bandwidth	10 Hz to 30 kHz
Output Power Resolution	0.05 dB

Test Ports

Test Port Damage Level	+20 dBm, $\pm$ 30 VDC
------------------------	-----------------------

Power

Maximum Power Consumption	350 VA
---------------------------	--------

Environmental

Storage Temperature	-10 °C to +60 °C
Operating Humidity	20% to 80% RH (non-condensing)

Rear Panel Connectors

External Reference Input Frequency	10 MHz
------------------------------------	--------

TECHNOLOGY

RF Vector Network Analysis

APPLICATIONS

General-purpose RF component test, CATV component manufacturing, education, and basic R&D

