KEYSIGHT TECHNOLOGIES (AGILENT HP)

E5062A

The Keysight / Agilent E5062A is a general-purpose RF vector network analyzer in the ENA-L series, operating from 300 kHz to 3 GHz. Designed to provide reliable basic S-parameter and transmission/reflection measurements, it offers a choice of 50 Ω or 75 Ω test port impedance configurations to suit various standard and CATV component testing needs. Delivering up to 120 dB of dynamic range and low 0.005 dB rms trace noise, the E5062A pairs robust measurement performance with built-in Visual Basic for Applications (VBA) programming and a large 10.4-inch color LCD.

SPECIFICATIONS

General

Interfaces	LAN (10/100Base-T), USB (Host and Device), GPIB (IEEE 488), Parallel, VGA Video Out
Display	10.4-inch color TFT LCD

Physical

Power Supply	90 to 132 V AC / 198 to 264 V AC, 47 to 63 Hz, 350 VA max
Operating Temperature	5 to 40 °C
Dimensions (W×H×D)	426 × 222 × 286 mm mm
Weight	13.5 kg kg

System Performance

Frequency Range	300 kHz to 3 GHz
Standard Impedance	50 Ω or 75 Ω (option dependent)
Dynamic Range	120 dB (typical)
Trace Noise	0.005 dB rms (typical, at 3 kHz IFBW)

Test Port Output

Frequency Resolution	1 Hz

Test Port Input

Test Port Connectors (50 Ω)	Type-N (female)
Test Port Connectors (75 Ω)	Type-N (female, 75 Ω)

Sweep Characteristics

Sweep Types	Linear frequency, Log frequency, Segment sweep, Power sweep
Number of Points	2 to 1601 points (per channel)

Measurement Capabilities

IF Bandwidth Range	10 Hz to 30 kHz
Independent Channels	Up to 4 channels
Traces per Channel	Up to 4 traces
Automation & Scripting	Built-in Visual Basic for Applications (VBA)
Supported Calibration Types	Response, 1-Port, 2-Port (requires S-parameter options 250/275), Electronic Calibration (ECal)

Options & Configurations

Test Set Configuration	Transmission/Reflection (T/R) or Full 2-Port S-Parameter (option dependent)

Inputs & Outputs

Maximum Input Level	+20 dBm, ±30 VDC
External Reference Input	10 MHz, BNC (female)
External Trigger Input	TTL / CMOS compatible, BNC (female)
Video Output	15-pin mini D-Sub (VGA)

Frequency

Frequency Accuracy	±5 ppm (standard); ±1 ppm (with Option 1E5)

Performance

Measurement Parameters	S11, S21 (T/R test set options); S11, S21, S12, S22 (S-parameter test set options)

Source

Output Power Resolution	0.05 dB

Power

Power Consumption	350 VA (maximum)

Environmental

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

Signal Source

Output Power Range	0 to +10 dBm (Options 150/175); -45 to +10 dBm (Options 250/275)

Features & Options

Time Domain Analysis	Available via Option 010
Fault Location & SRL Analysis	Available via Option 100

Software & Automation

Built-in Programming	Visual Basic for Applications (VBA)

Measurement Ports

Test Port Damage Level	+20 dBm, ±30 VDC

TECHNOLOGY

RF Vector Network Analysis

APPLICATIONS

General-purpose RF component testing, filter tuning, amplifier testing, CATV component measurements