

KEYSIGHT TECHNOLOGIES (AGILENT HP)

E5070B

The Keysight (Agilent) E5070B is an ENA Series RF Vector Network Analyzer featuring a frequency range of 300 kHz to 3 GHz. It offers high throughput and flexibility with integrated 2-, 3-, or 4-port options, an integrated 10.4-inch touch screen, and built-in Visual Basic for Applications (VBA) for automated testing. This analyzer is optimized for efficient testing of multi-port components, balanced devices, and RF front-end modules.

SPECIFICATIONS

Physical

Power Supply	90 to 132 VAC or 198 to 264 VAC (automatic selection), 47 to 63 Hz, 350 VA max
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Measurement Performance & Core Specs

Frequency Range	300 kHz to 3 GHz
Number of Built-in Ports	2, 3, or 4 (hardware option dependent)
Test Port Impedance	50 Ω
Test Port Connector Type	Type-N, female
Number of Measurement Channels	Up to 16 channels
Number of Traces per Channel	Up to 16 traces per channel

Source Specifications

Frequency Resolution	1 Hz
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Receiver Specifications

IF Bandwidth Range	10 Hz to 100 kHz
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Measurement Functions & Sweep Capabilities

Measurement Parameters	S-parameters, Mixed-mode S-parameters
Sweep Types	Linear frequency, Log frequency, Segment, Power
Sweep Trigger Modes	Continuous, Single, Number of groups, Hold

Calibration & Error Correction

Calibration Types Supported	Response, Response (open/short/thru), 1-port, 2-port, 3-port, 4-port, TRL/LRM
Electronic Calibration (ECal) Support	Yes (2, 3, and 4-port)
Fixture Simulator Function	Matching circuit embedding, test fixture de-embedding, impedance conversion

Connectivity, Control & Interfaces

GPIO Interface	24-pin D-sub female, IEEE 488 compatible
LAN Interface	10/100 Base-T Ethernet, RJ-45 connector
External Trigger Input	BNC female
Internal Reference Output	10 MHz, BNC female
Handler Port	36-pin Centronics-type connector
VGA Video Output	15-pin mini D-Sub female

Hardware & Software Options

Time Domain Analysis Option	Option 010
Frequency Offset Mode Option	Option 008
Internal Bias Tees Option	Available on Options 214, 314, and 414

General, Environmental & Physical

Power Consumption	350 VA max
Programming Environment	Built-in Visual Basic for Applications (VBA)
Limit Test Capability	Yes
External Trigger Input Level	TTL compatible (0 to 5 V)

Display

Display Size	10.4 in (264 mm) diagonal
Display Type	Active matrix color TFT LCD with touch screen

Power

Power Supply AC Input Voltage	90 V to 132 V or 198 V to 264 V (automatic selection)
Power Supply AC Input Frequency	47 Hz to 63 Hz

Rear Panel Connections

Rear Panel External Trigger Connector	BNC female
Rear Panel Reference Input Connector	BNC female
Rear Panel Reference Output Connector	BNC female
Rear Panel Video Output Connector	15-pin mini D-Sub (VGA)
Rear Panel GPIO Connector	24-pin D-sub (IEEE-488)
Rear Panel Handler Port Connector	36-pin Centronics

Configuration Options

Hardware Configurations	2-port (Option 213/214), 3-port (Option 313/314), or 4-port (Option 413/414)
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TECHNOLOGY

Vector Network Analysis (VNA)

APPLICATIONS

RF Component and Multiport Device Testing

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.