

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8722ES

The Agilent / Keysight 8722ES is a high-performance vector network analyzer (VNA) from the 8720E family, operating from 50 MHz to 40 GHz. Designed for the complete characterization of RF and microwave components, it features an integrated synthesized source, built-in S-parameter test set, and tuned receiver. The instrument delivers 100 dB of dynamic range, two measurement channels, and four display channels. Built-in vector accuracy enhancement includes full two-port and adapter-removal calibration. It supports frequency and power sweeps, ECal, pass/fail limit testing, and internal test sequencing, with various configuration options available for time-domain analysis, high-power testing, and direct sampler access.

SPECIFICATIONS

General

Interfaces	GPIB
Display	Color LCD
Internal Storage	3.5-inch 1.44 MB floppy disk drive

Physical

Power Supply	90-132 V / 198-264 V, 48-66 Hz, 280 VA max
Operating Temperature	0 to 55 °C
Dimensions (W×H×D)	425 × 222 × 457 mm
Weight	25 kg

Frequency Characteristics

Frequency Range	50 MHz to 40 GHz
Sweep Types	Frequency and power sweeps

Measurement Capabilities

System Architecture	Integrated synthesized source, test set, and tuned receiver
Measured Parameters	Full range of magnitude and phase (forward and reverse directions)
Number of Measurement Channels	2
Calibration Types Supported	Full two-port, adapter-removal, optional TRL
Limit Testing Capabilities	Pass/Fail testing
Internal Automation	Test-sequencing

Display and Data Storage

Marker Functions	Powerful marker functions supported
------------------	-------------------------------------

Interfaces and Connectivity

Electronic Calibration (ECal) Compatibility	Supported
Test Port Connector Type	2.4 mm
Test Port Impedance	50 Ω

Options and Upgrades

Time Domain Option	Optional
High-Power Test Set Option	Optional
Four Samplers and TRL Calibration	Optional
Direct Sampler Access	Optional
Frequency-Offset Mode	Optional

Frequency

Frequency Resolution	1 Hz
Standard Frequency Accuracy	±10 ppm (at 25°C ± 5°C)

Measurement

Magnitude Resolution	0.001 dB
Phase Resolution	0.01°
Group Delay Aperture	Selectable (up to 20% of frequency span)

Receiver

IF Bandwidth Settings	10 Hz to 6 kHz
-----------------------	----------------

Source

Source Power Resolution	0.01 dB
-------------------------	---------

Options

High Stability Timebase Option	Option 1D5
--------------------------------	------------

TECHNOLOGY

Vector Network Analysis

APPLICATIONS

RF and Microwave Component Characterization

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