

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8722C

The Keysight (Agilent HP) 8722C is a high-performance microwave vector network analyzer designed to characterize RF and microwave components from 50 MHz up to 40 GHz. It integrates a fast-sweeping synthesized source, an S-parameter test set, and a tuned receiver into a single compact system. Featuring a large color display and advanced marker and calibration capabilities, the 8722C is highly suited for R&D, manufacturing, and quality assurance applications requiring precise and comprehensive S-parameter measurements.

SPECIFICATIONS

General

Interfaces	GPIB (HP-IB)
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Physical

Operating Temperature	0 to 55 °C
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Frequency & Source Specifications

Frequency Range	50 MHz to 40 GHz
Frequency Resolution (Standard)	100 kHz
Frequency Resolution (Option 001)	1 Hz
Frequency Stability (Option 1D5)	±0.05 ppm

Receiver & System Performance

Impedance	50 Ω
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Sweep & Measurement Capabilities

Number of Measurement Points	3, 11, 21, 51, 101, 201, 401, 801, 1601
Sweep Types	Linear frequency, Logarithmic frequency, List frequency, Power sweep
IF Bandwidth Range	10 Hz to 3 kHz
Measurement Parameters	S11, S21, S12, S22
Display Formats	Log magnitude, Phase, Group delay, Smith chart, Polar, Linear magnitude, SWR, Real, Imaginary
Display Channels	2 independent channels

Ordering & Configuration Options

Option 001	1 Hz frequency resolution
Option 010	Time domain capability
Option 1D5	High stability frequency reference

Options

Option 011	Three-channel direct-access receiver configuration
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Receiver Performance

Magnitude Resolution	0.001 dB
Phase Resolution	0.01°

Rear Panel Connectors

Video Output	Red, Green, Blue (RGB) BNC female connectors
External Trigger Input	BNC female, TTL compatible

TECHNOLOGY

Vector Network Analysis

APPLICATIONS

RF & 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.