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Data Sheet
August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 8713C

The HP/Agilent 8713C is an RF network analyzer covering 300 kHz to 3000 MHz with integrated source and test set. OEM 871x C-family documentation lists 3 GHz coverage versus the 1.3 GHz 8711/8712 family and improved source-match figures on the 8713/8714 class. RF/microwave component production test up to 3 GHz and swept network characterization. User calibration residual uncertainty tables Frequency Accuracy Class: 5 ppm class at 25 C plus or minus 5 C family Source Type: integrated synthesized source Dynamic Range Class: production RF NA class after calibration Power Accuracy Class: per 8713 family power tables From HP/Agilent 8711/8712/8713/8714 family documentation model row for 8713C 3 GHz coverage.

MODEL	CALIBRATION
Agilent / Keysight 8713C	Available on request
CONDITION	**STATUS**
Used	In stock
RFQ / SKU	**LISTING**
8713C	https://aumictechlabs.com/products/8713c-2/

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 8713C is a network analyzer covering 300 kHz to 3 GHz with integrated synthesized source and transmission/reflection test set. It delivers simultaneous reflection and transmission measurements across a >100 dB dynamic range at sweep speeds of 50 ms, making it suitable for RF component characterization in development and manufacturing.Technical Specifications Frequency Range: 300 kHz to 3 GHz Source Resolution: 1 Hz Sweep Speed: 50 ms/sweep (real-time) System Dynamic Range: >100 dB Measurement Ports Impedance: 50 and 75 ohm Output Power: Up to +16 dBm, 0.01 dB resolution Level Accuracy: ±1.0 dB (standard); ±1.5 dB

(Option 1EC); ±2.0 dB (Option 1E1); ±3.0 dB (combined options) Receiver Dynamic Range: >100 dB (narrowband mode) Source Signal Purity: Nonharmonic spurious ⟵30 dBc (≥1 MHz); Phase noise –67 dBc/Hz (10 kHz offset); Residual AM ⟵50 dBc (100 kHz bandwidth); Residual FM <1.5 kHz (30 Hz to 15 kHz peak)Key Features Eight markers per channel with search, tracking, and bandwidth functions Display formats: linear/log magnitude, SWR, complex impedance, polar, Smith chart, and dBV/dBmV/dBµV for 75 ohm measurements Vector division of current and memory trace data Pass/fail limit lines with TTL output for external control Measures insertion loss, return loss, gain, conversion loss, power, and SWR Optional AM Delay measurement for frequency-translating devices (requires external scalar detectors and power splitter) AM Delay specifications: 55.56 kHz aperture, 1 ns/division resolution, ±4 ns accuracy, 30 µsec delay rangeTypical Applications RF and microwave component testing Device characterization and validation Manufacturing test and production screening Group delay measurement through mixers and tuners (with optional AM Delay)Compatibility & Integration Internal 3.5-inch disk drive (LIF/DOS formats) 380 KB nonvolatile storage for up to 20 instrument states Data export: binary, PCX, HP-GL, ASCII formats

8713C Characteristics / Specifications

PARAMETER	VALUE
Model	8713C
Frequency Range	300 kHz to 3000 MHz
Frequency Accuracy Class	5 ppm class at 25 C plus or minus 5 C family
Directivity After User Calibration Class	40 dB class
Source Match Reflection Class	20 dB class
Source Match Transmission Class	20 dB class (8713/8714)
Load Match Class	18 dB class
Instrument Type	RF network analyzer
Family	HP 8713C 3 GHz
Remote Interface	HPIB
Brand Lineage	HP / Agilent
Form Factor	benchtop RF network analyzer
Display	CRT analyzer display class
Test Port Power Class	per 8713 family maximum output power tables
Calibration Temperature Window Class	25 C plus or minus 5 C class
Frequency Resolution Class	1 Hz class synthesized source familyFrequency Resolution Class: 1 Hz class synthesized source
Source Type	integrated synthesized source
Test Set	integrated RF test set
Dynamic Range Class	production RF NA class after calibration
Power Accuracy Class	per 8713 family power tables
Maximum output power	tables

8713C Specifications

PARAMETER	VALUE
HP Agilent 8713C RF Network Analyzer	Overview
Applications	RF/microwave component production test up to 3 GHz and swept network characterization.
Key Features	300 kHz to 3000 MHz coverage
HPIB programmable	Optional attenuator and 75 ohm paths
Technical Specifications	Model: 8713C
Notes	From HP/Agilent 8711/8712/8713/8714 family documentation model row for 8713C 3 GHz coverage.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

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Option 1E1: step attenuator path
Option 1EC: 75 ohm system impedance path

Specifications

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Notes

From HP/Agilent 8711/8712/8713/8714 family documentation model row for 8713C 3 GHz coverage.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: **sales@aumictech.com** · +1 (484) 841-9341

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