

KEYSIGHT TECHNOLOGIES (AGILENT HP)

8714ET

The Keysight (formerly Agilent/HP) 8714ET is a 300 kHz to 3 GHz RF Economy Network Analyzer featuring a built-in transmission/reflection (T/R) test set. It provides fast, accurate vector-error-corrected measurements for characterizing linear and non-linear RF components. Designed as a cost-effective solution compared to full S-parameter models, the 8714ET measures forward transmission and reflection parameters (such as S11 and S21) and offers both frequency and power sweeps for comprehensive component testing.

SPECIFICATIONS

General

Interfaces	LAN
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Physical

Operating Temperature	0 to 55 °C
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Test Port Connector Type	Type-N female
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General Specifications

Frequency Range	300 kHz - 3 GHz
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Architecture	Transmission / Reflection (T/R)
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System Impedance	50 Ω (75 Ω version available)
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Source / Stimulus Characteristics

Lowest Power Setting	-60 dBm (with Option 1E1)
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Step Attenuator	60 dB (with Option 1E1)
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Display and Data Processing

Number of Channels	2 independent channels
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Sweep and Measurement Capabilities

Sweep Types	Frequency, Power
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Interfaces and Connectivity

Local Storage	Internal disk drive
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Performance

Source Power Resolution	0.01 dB
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Harmonics	< -30 dBc
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Maximum Number of Points	1601
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Magnitude Resolution	0.01 dB
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Phase Resolution	0.01°
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Frequency

Source Frequency Resolution	1 Hz
Frequency Accuracy	±5 ppm

Test Port Characteristics

Test Port Damage Level	+26 dBm or ±30 VDC
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Signal Source

Non-Harmonic Spurious Signals	< -30 dBc (> 1 MHz)
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Inputs & Outputs

External Trigger Input	TTL compatible, BNC(f)
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TECHNOLOGY

Vector Network Analyzer (VNA)

APPLICATIONS

RF Component 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.