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Data Sheet

August 14, 2026

AGILENT

Agilent 8753ET 6 GHz Transmission/Reflection Network Analyzer

Agilent Keysight 8753ET RF Network Analyzer Transmission Reflection The Agilent/Keysight 8753ET is an integrated RF network analyzer for transmission and reflection measurements from 30 kHz to 3 GHz standard, or to 6 GHz with Option 006. OEM 8753ET/ES data sheets list 1 Hz frequency resolution, synthesized source, T/R test set, and system dynamic range up to 110 dB at 10 Hz IF bandwidth. RF component S-parameter style T/R characterization, filter amplifier and cable test to 3 or 6 GHz, and production RF network analysis with enhanced-response calibration. The Agilent/Keysight 8753ET is an integrated RF network analyzer for transmission and reflection measurements from 30 kHz to 3 GHz standard, or to 6 GHz with Option 006. OEM 8753ET/ES data sheets list 1 Hz frequency resolution, synthesized source, T/R test set, and system dynamic range up to 110 dB at 10 Hz IF bandwidth. RF component S-parameter style T/R characterization, filter amplifier and cable test to 3 or 6 GHz, and production RF network analysis with enhanced-response calibration. Integrated synthesized source and T/R test set



MODEL

Agilent 8753ET

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

8753ET

LISTING

<https://aumictechlabs.com/products/8753et-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent 8753ET is a benchtop transmission/reflection network analyzer that characterizes RF and microwave components across a 300 kHz to 3 GHz frequency band, or 300 kHz to 6 GHz with Option 006. Built around two 50 ohm Type-N female test ports, it delivers up to 110 dB dynamic range and supports two measurement channels displayed across four independent display channels. The instrument combines frequency and power sweep capabilities with advanced calibration techniques - including TRL/LRM and electronic calibration - to ensure measurement accuracy across demanding laboratory and manufacturing environments.

Technical Specifications
Frequency Range: 300 kHz to 3 GHz (standard); 300 kHz to 6 GHz with Option 006
Test Ports: Two 50 ohm Type-N female connectors
Dynamic Range: Up to 110 dB
Measurement Channels: Two; Four display channels
Frequency Resolution: 1 Hz
IF Bandwidth: 10 Hz
Source Power (Standard): -20 dBm to +5 dBm; Power sweep range 25 dB; Resolution 0.01 dB; Flatness ± 0.5 dB
Source Power (Option 004): -85 dBm to +10 dBm
Impedance: 50 ohm

Key Features
Integrated transmission/reflection test set with full magnitude and phase measurements in forward direction
Enhanced response calibration corrects source match effects in transmission measurements
TRL/LRM and electronic calibration support
Frequency and power sweep modes
Time Domain Analysis (Option 010) enables reflection/transmission viewing in time or distance domain with time gating for unwanted response removal
Harmonic Measurement (Option 002) characterizes second and third harmonics down to -40 dBc, displayed absolutely or relative to fundamental; extends to 6 GHz with Option 006
Step Attenuator Upgrade (Option 004) extends source dynamic range to -85 dBm minimum
VGA-compatible external monitor output
GPIB programming interface
Compatibility & Integration Software code compatibility with 8753D/E models enables leverage of existing measurement routines and test scripts.

8753ET Characteristics / Specifications

PARAMETER	VALUE
Model	8753ET
Frequency Range Standard	30 kHz to 3 GHz
Frequency Range Option 0	30 kHz to 6 GHz
Frequency Resolution	1 Hz
Frequency Accuracy At 25 Plus Or Minus 5 C	plus or minus 10 ppm
Frequency Stability Standard	plus or minus 7.5 ppm 0 to 55 C plus or minus 3 ppm/year
Frequency Stability Option 1D	plus or minus 0.05 ppm 0 to 55 C plus or minus 0.5 ppm/year
System Dynamic Range 30 kHz To 50 kHz	70 dB
System Dynamic Range 50 kHz To 300 kHz	90 dB
System Dynamic Range 300 kHz To 16 MHz	100 dB
System Dynamic Range 16 MHz To 3 GHz	110 dB
System Dynamic Range 3 GHz To 6 GHz	105 dB
IF Bandwidth For Dynamic Range Spec	10 Hz
Source Power Range Class	minus 85 to plus 10 dBm class
Power Sweep Range	25 dB typically 31 dB
Power Level Resolution	0.01 dB
Power Level Accuracy Class	plus or minus 1.0 dB
Power Level Linearity Minus 15 To Plus 5 dBm	plus or minus 0.2 dB
Test Set Type	transmission/reflection integrated
Calibration Type Class	enhanced response for 8753ET
Connector Impedance Class	50 Ohm standard
Series Family	HP Agilent 8753ET/ES

PARAMETER	VALUE
Bandwidth	For Dynamic Range Spec: 10 Hz

8753ET Specifications

PARAMETER	VALUE
Integrated synthesized source and T/R test set	30 kHz to 3 GHz standard Option 006 to 6 GHz
Enhanced response error correction	Power sweep and multiple sweep types
Technical Specifications	Model: 8753ET

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	
Specifications	
PARAMETER	VALUE
Model	8753ET
Frequency Range Standard	30 kHz to 3 GHz
Frequency Range Option 006	30 kHz to 6 GHz
Frequency Resolution	1 Hz
Frequency Accuracy At 25 Plus Or Minus 5 C: plus or minus 10 ppm	
Frequency Stability Standard: plus or minus 7.5 ppm 0 to 55 C plus or minus 3 ppm/year	
Frequency Stability Option 1D5: plus or minus 0.05 ppm 0 to 55 C plus or minus 0.5 ppm/year	
System Dynamic Range 30 kHz To 50 kHz: 70 dB	
System Dynamic Range 50 kHz To 300 kHz: 90 dB	
System Dynamic Range 300 kHz To 16 MHz: 100 dB	
System Dynamic Range 16 MHz To 3 GHz: 110 dB	
System Dynamic Range 3 GHz To 6 GHz: 105 dB	
Specifications	
PARAMETER	VALUE
IF Bandwidth For Dynamic Range Spec	10 Hz
Source Power Range Class	minus 85 to plus 10 dBm class
Power Sweep Range	25 dB typically 31 dB
Power Level Resolution	0.01 dB
Power Level Accuracy Class	plus or minus 1.0 dB
Power Level Linearity Minus 15 To Plus 5 dBm: plus or minus 0.2 dB	
Specifications	
PARAMETER	VALUE
Test Set Type	transmission/reflection integrated
Calibration Type Class	enhanced response for 8753ET
Connector Impedance Class	50 Ohm standard
Series Family	HP Agilent 8753ET/ES

Notes

From HP/Agilent 8753ET and 8753ES Network Analyzers 30 kHz to 3 or 6 GHz data sheet. Dynamic range is transmission system dynamic range; reflection limited by directivity. Confirm Option 006 and 1D5 on the unit.

Ordering Information

OPTION	DESCRIPTION
Option 006	to 6 GHz

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

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.