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Data Sheet
August 13, 2026

ANRITSU

Anritsu 54137A Scalar Network Analyser System, 2 to 20GHz

Anritsu 54137A Scalar Network Analyzer 2 GHz to 20 GHz The Anritsu (Wiltron) 54137A is a 54100A-series scalar network analyzer with an integrated crystal-referenced source covering 2 GHz to 20 GHz. It measures transmission, return loss, precision return loss, SWR, absolute power, optional relative group delay, and optional distance-to-fault using 560/5400-series detectors and SWR autotesters, with GPIB automation andabuilt-in floppy disk drive. The Anritsu (Wiltron) 54137A is a 54100A-series scalar network analyzer with an integrated crystal-referenced source covering 2 GHz to 20 GHz. It measures transmission, return loss, precision return loss, SWR, absolute power, optional relative group delay, and optional distance-to-fault using 560/5400-series detectors and SWR autotesters, with GPIB automation andabuilt-in floppy disk drive.

MODEL Anritsu 54137A	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU 54137A	LISTING https://aumictechlabs.com/products/54137a-2/

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

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 54137A Scalar Network Analyzer System characterizes RF and microwave components across 2 to 20 GHz. It delivers S-parameter measurements, scalar transmission and reflection data, return loss, SWR, group delay, and absolute power measurements - essential capabilities for filters, amplifiers, antennas, and cable assemblies in research, development, and

production environments.Technical Specifications Frequency Range: 2 GHz to 20 GHz Output Power: 10 dBm into 50 Ω Harmonic Content: −60 dBc above 2 GHz; −40 dBc below 2 GHz Source Stability: Crystal-referenced for frequency accuracyKey Features S-parameter, scalar transmission, and scalar reflection measurements Transmission gain/loss and return loss quantification Precision return loss capability with optional software (up to 20 dB directivity improvement) SWR and group delay characterization Absolute power measurement Distance-to-fault (DTF) capability for waveguides, cables, and antennas via optional software (256, 512, or 1024 frequency-point sampling) Relative group delay software for cost-effective filter analysis 70 dB step attenuator available (Option 2A) Reference channel, external leveling, and front panel cover options Rugged, field-proven chassis design Supplied with 560-7N50B detector (10 MHz to 20 GHz), 560-97N50-1 SWR Autotester (10 MHz to 18 GHz), and transit caseTypical Applications Component characterization including amplifiers, antennas, attenuators, adapters, RF bridges, duplexers, couplers, cables, waveguide transmission lines, isolators, circulators, mixers, receivers, transceivers, up/down converters, multiplexers, power dividers, VCOs, switches, and filters. Suited for production validation of filters and amplifiers and field testing of transmission systems.

Features & description

From manufacturer datasheet

Features

• Integrated source 2 GHz to 20 GHz with crystal reference • Transmission return loss SWR power and optional group delay • Optional distance-to-fault and relative group delay software • Dual display channels with ratio A/R or B/R • IEEE-488.2 GPIB with plotter control • Built-in floppy disk and automation features

Applications

• Filter amplifier antenna cable and adapter scalar characterization 2 to 20 GHz • Production tuning with bandwidth search and limit lines • Distance-to-fault cable fault location with Option 7 • Absolute power and return-loss QA to 20 GHz

54137A Characteristics / Specifications

PARAMETER	VALUE
Model	54137A
Manufacturer	Anritsu / Wiltron
Instrument Type	Scalar Network Analyzer
Alias	54137A; Wiltron 54137A; 54100A series
Frequency range	2 GHz to 20 GHz
Source leveled output	+10 dBm typical 50 ohm
Source SWR leveled	less than 1.8
Harmonics greater than 2 GHz	-60 dBc
Harmonics less than 2 GHz	-40 dBc
Nonharmonic spurious greater than 2 GHz	-60 dBc
Nonharmonic spurious less than 2 GHz	-50 dBc
Analyzer dynamic range	-55 dBm to +16 dBm
Detection	AC detection autozero with 560 or 5400 series detectors
Input channels standard	A andBOptional reference channel: R Option 5
Display channels	2 simultaneous fromABorRRatio displays: A/R and B/R
Horizontal resolution points	51 101 201 or 401
Vertical resolution	0.025 dB or 0.0025 ns
Vertical scaling	0.1 to 10 dB per division
Offset range	-99.9 to +99.9 dB
Averaging factors	2 to 256 successive traces
Power level accuracy leveled	plus or minus 1 dB
Sweep time single band typical	less than 70 ms at 101 points
Trace update typical	about 130 ms
Remote interface	IEEE-488.2 GPIB
Reverse power protection	up to 5 W family claim

PARAMETER	VALUE
Dimensions typical	7 inHx 16.75 inWx 18.75 inDProduct status: discontinued 54100A series Notes Specs from Anritsu/Wiltron 54100A series technical data and reseller listings for 54137A (2–20 GHz). Confirm installed options 02/05/06/07/08/16 and detector/autotester complement.
Bandwidth	search and limit lines - Distance-to-fault cable fault location with Option 7
Return loss	SWR power and optional group delay - Optional distance-to-fault and relative group delay software - Dual display channels with ratio A/R or B/R - IEEE-488.2 GPIB with plotter control - Built-in floppy disk and automation features

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

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Remote interface	IEEE-488.2 GPIB
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Dimensions typical	7 in H x 16.75 in W x 18.75 in D
Product status	discontinued 54100A series

Specifications

PARAMETER	VALUE
Display channels	2 simultaneous from A B or R
Ratio displays	A/R and B/R
Horizontal resolution points	51 101 201 or 401
Vertical resolution	0.025 dB or 0.0025 ns
Vertical scaling	0.1 to 10 dB per division
Offset range	-99.9 to +99.9 dB
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Technical Specifications

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Nonharmonic spurious greater than 2 GHz	-60 dBc
Nonharmonic spurious less than 2 GHz	-50 dBc
Analyzer dynamic range	-55 dBm to +16 dBm
Detection	AC detection autozero with 560 or 5400 series detectors
Input channels standard	A and B

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Option 2: 70 dB RF step attenuator 10 dB steps
Option 5: add reference channelROption 6: add external leveling
Option 7: internal distance to fault software
Option 8: relative group delay

Specifications

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Notes
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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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