

ANRITSU

37247D

The Anritsu 37247D is a high-performance 2-port Vector Network Analyzer belonging to the Economy Lightning series. Covering a frequency range from 40 MHz to 20 GHz, it is designed primarily for passive component test applications. It features 1 Hz frequency resolution, Rear Panel IF inputs, multiple source control, and a high-stability frequency reference, making it an excellent platform for defense, satellite, and optoelectronic component measurements.

SPECIFICATIONS

General

Interfaces	GPIB, Ethernet LAN (10-Base-T), Serial (RS-232), Centronics Printer Port, External VGA
Display	Color Active Matrix TFT LCD
Series Class	Lightning Premium Series

Physical

Power Supply	85 - 240 VAC, 48 - 63 Hz
Operating Temperature	0 to +50 °C °C
Dimensions (W×H×D)	426 mm × 222 mm × 533 mm mm
Weight	22.0 kg

Frequency & Stimulus

Frequency Range	40 MHz to 20 GHz
Frequency Resolution	1 Hz
Number of Test Ports	2
Test Port Impedance	50 Ω
High Stability Frequency Reference	Standard

Measurement Capabilities

Measured Parameters	S-parameters (S11, S21, S12, S22)
Multiple Source Control	Supported
Frequency Offset Mode	Supported
E/O and O/E Measurements	Supported
Mixer Measurement Utility	NxN Calibration Utility
Embed/De-Embed Application	Supported
Gain Compression Application	Not Included (37300D series only)
Number of Measurement Channels	4 independent channels (up to 4 traces)
Sweep Types	Linear, Log, List, CW
Number of Measurement Points	2 to 1601
Group Delay Aperture	1% to 100% of frequency span
Display Formats	Log Magnitude, Phase, Group Delay, Smith Chart, Polar, Linear Magnitude, SWR, Real, Imaginary
Markers	10 independent markers per channel, 1 reference marker
Calibration Types	SOLT, LRL, LRM, ALRM

Hardware Interfaces

Rear Panel IF Inputs	Supported
Internal Bias Tees	Not Included (37300D series only)

Receiver Performance

System Dynamic Range (40 MHz to 2 GHz)	102 dB
System Dynamic Range (2 GHz to 20 GHz)	110 dB

Test Port Output Power

Output Power Range	-15 to +5 dBm
Power Level Resolution	0.01 dB

Connectors & Rear Panel

Test Port Connector Type	Ruggedized K (male)
External Reference Input Frequency	1, 2, 5, or 10 MHz
External Reference Output Frequency	10 MHz
External Keyboard Connector	PS/2
External Video Output	15-pin VGA

Data Storage & State Recall

Internal Storage (Floppy Drive)	3.5-inch MS-DOS compatible, 1.44 MB
Internal State Storage	Up to 10 front panel setups

Input & Output Specs

Test Port Damage Level	+22 dBm, 50 VDC
GPIB Interfaces	System GPIB, Dedicated GPIB
Printer Interface	25-pin Centronics parallel
External Trigger Input	TTL compatible, BNC female

Environmental

Storage Temperature	-40 °C to +75 °C
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TECHNOLOGY

Vector Network Analysis

APPLICATIONS

Microwave and millimeter-wave passive 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.