HPORTEK

PRODUCT DATASHEET

SYVNA-2P-M20G

Dual-Port Vector Network Analyzer

The SYVNA-2P-M20G is a low-cost, high-performance, compact dual-port VNA covering 10 MHz to 20 GHz. It offers bench-level performance with open interfaces for secondary development, suitable for laboratories, research/education, and system integration.



Features

• Compact, lightweight, low power, portable

• Multi-site parallel testing

• LAN interface for secure PC control

Published technical information

Parameter	Specification / typical value
Functional Specifications	
Independent S-parameter measurement	Supported
Swept/fixed-frequency modes; time-domain analysis (cable fault distance, reflection distance)	Supported
Measurement, calibration & de-embedding via host software	Supported
Technical Specifications	
Frequency Range	10MHz-20GHz
Frequency Accuracy	±5×10-6
Frequency Resolution	1Hz
Sweep Points	2 to 10001 points
Measurement Bandwidth	1Hz ~ 300kHz

Parameter	Specification / typical value
Dynamic Range	≥80dB
Transmission Accuracy	±0.2dB/±2°（0dB～10dB）；；±0.1dB/±2°（-45dB～0dB）；；±0.2dB/±2°（-65dB～-45dB）；；±1dB/±6°（-70dB～-65dB）
Reflection Accuracy	±0.5dB/±4°（-15dB～0dB）；；±1.5dB/±10°（-25dB～-15dB）；；±5.5dB/±30°（-35dB～-25dB）
Trace Noise	0.002dBrms（10MHz～6.5GHz）；； 0.003dBrms（6.5GHz～12GHz）；； 0.004dBrms（12GHz～20GHz）
Temperature Characteristics	0.02dB/℃（10MHz～6.5GHz）；；0.04dB/℃（6.5GHz～20GHz）；
Effective Directivity	35dB
Effective Source Match	30dB
Effective Reflection Tracking	±0.5dB
Burn-out Power	+25dBm
Ext. Ref. Frequency	10MHz
Ext. Ref. Power	0dBm～5dBm
Output Ref. Frequency	10MHz
Output Ref. Power	0dBm～5dBm
General Specifications	
Supply Voltage	12Vdc
Power Consumption	40W
Operating Temperature	+5℃～+40℃
Storage Temperature	-50℃～+70℃
Relative Humidity	90% RH at 25°C
Dimensions (excl. connectors)	200mm×156mm×48mm
Weight	4kg

Prepared from the existing product catalogue. Specifications may change; typical values are not guaranteed limits. Confirm operating conditions, interfaces and ordering configuration with engineering. This document does not replace the equipment operating manual.

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https://www.hportek.com/en/product/vector-network-analyzer-syvna-2p-m20g/