

Product Name :
Vector Signal (spectral) Analyzer

Product Code :
SH915



Description :

Vector Signal (spectral) Analyzer

Technical Specification :

Vector Signal (spectral) Analyzer

Technical Parameter:

Frequency Range: 10 Hz to 50 GHz

Sweep Span: 0 Hz (Zero Span), 10 Hz to frequency

Frequency Counter Resolution: 0.01 Hz

Frequency Reference Ageing Rate: $\pm 3 \times 10^{-8}$ /Year

Pre-Amplifier: 100 KHz to 50 GHz

Resolution Bandwidth: 1 Hz to ± 8 MHz

Video Bandwidth: 1 Hz to ± 8 MHz

Analysis Bandwidth: ± 500 MHz

Attenuator: 0 to 70 dB (min)

Safe Input CW RF Power: +30 dBm

Displayed Average Noise Level (DANL)

Pre-Amplifier off Pre-Amplifier on -150 dBm@2GHz, -145 dBm@20GHz, -132 dBm@50GHz -162 dBm@2GHz, -160 dBm@20GHz, -145 dBm@50GHz

Phase Noise: -132 dBc/Hz@10 kHz offset from 1GHz carrier -110 dBc/Hz@10KHz offset from 40 GHz carrier

Third Order Intercept Point (TOI) - Better than +8 dBm

Required: Vector Signal

Analysis: Measurement

Application Capabilities

Based on the description of signal to be analyzed (e.g. Modulation format, Continuous or with burst, Symbol rate, transmit filtering etc), following signal analysis measurement capabilities are required: • Vector Signal Analysis Bandwidth: 500 MHz • Magnitude Error, Phase Error, Frequency Error, SNR, Spectrum

Magnitude vs time, IQ vs time, EVM (Error Vector Magnitude), IQ Analysis, Spectrogram, Eye Diagram

Supported Modulation types for Vector Signal Analysis

1. FSK, MSK, GMSK, DMSK
2. BPSK, QPSK, Offset-QPSK, DQPSK, 8PSK, and 16 & 32 APSK (DVB-S2)
3. Up to 1024 QAM
4. AM, PM, FM
5. User-Definable Modulation Constellation & Mappings

RF Input Connector: 2.4 mm with saver, 50 Ohms (Nominal)

Interfaces LAN, USB

Other Ports

1. External Reference Input Required

2. Reference Output: 10 MHz

Operating Temperature Range: 10 deg. C to 40 deg. C

Power Requirement: 230 V AC, 50 Hz (Nominal)

Power Cord with 3-pin plug (Indian type).

Naugralabequipments

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