

Specifications

This section contains general specifications for the N5500A test set. It also includes data on system phase noise and spurious response levels, and the frequency and amplitude ranges for the phase detector input ports.

Table 1 Environmental and mechanical specifications

Altitude	Up to 2,000 meters (6,500 ft)
Operating temperature range	+0 °C to +45 °C (41 °F to 110 °F)
Warm-up time	20 minutes
Max relative humidity	80% for temperatures up to 31 °C, decreasing linearly to 50% relative humidity at 40 °C.
Height	177.2 mm (7 in)
Width	212.5 mm (8.4 in)
Depth	574.3 mm (22.6 in)
Weight	~ 30 lbs (13.6 kg)

Table 2 Tuning voltage output

Voltage range	± 10 V, open circuit
Current	20 mA, max
Output impedance	50 Ω, typical

Table 3 Noise input port

Frequency	0.01 Hz to 100 MHz
Amplitude	1 V peak, max
Input impedance	50 Ω, typical (DC coupled, RL < 9.5 dB)

Table 4 Noise floor degradation

Degrade system noise floor 1 dB for every dB reduction in Rinput levels less than:	+ 15 dBm (low frequency input)
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NOTE

The N5500A has low susceptibility to RFI and mechanical vibration. Care must be exercised, however, in making measurements in high RFI or mechanical vibration environments as spurious signals may be induced in the instrument.

Power Requirements

This section contains the power requirements and characteristics for the N5500A test set.

Table 5 N5500A power supply requirements

Nominal Voltage	115	230
Nominal Frequency	60 Hz	50 Hz
Power	3 A, max	2 A max

Power line module

The power module in the N5500A has the following characteristics:

- 200 W
- 85 to 264 VAC continuous-range operation
- 47 to 63 Hz
- Internal fuse: 5 A, 250 V

Fuse

The instrument's AC line cable has a replaceable fuse with the following characteristics:

- 3.15 A, 250 V, time delayed
- Agilent part number: 2110-1124