
LibreVNA Preliminary Specifications

VNA

Parameter	Conditions	Min	Typ	Max	Unit
Frequency range	native with harmonic mixing up to	100 kHz	8 GHz	6 GHz	
Stimulus power		-40		0 ¹	dBm
Dynamic range	stimulus 0 dBm, 10 Hz IF BW		60		dB
	<1 MHz		80		dB
	1-5 MHz		85		dB
	5-2940 MHz, S12	75	105		dB
	5-2940 MHz, S21	85			dB
	>2940 MHz, S12	40	55		dB
	>2940 MHz, S21	50	60		dB
IF Bandwidth		10		50k	Hz
Acquisition speed	50 kHz IF BW		10k		points/s

¹ Maximum power drops with increasing frequency

Signal Generator

Parameter	Conditions	Min	Typ	Max	Unit
Frequency range		100 kHz		6 GHz	
Output power		-40		0 ¹	dBm

¹ Maximum power drops with increasing frequency

Spectrum Analyzer

Parameter	Conditions	Min	Typ	Max	Unit
Frequency range		100 kHz		6 GHz	
Input power				-5	dBm
Resolution bandwidth		13		112k	Hz
Phase noise	1 GHz, 10 kHz offset		-103		dBc/Hz